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ADPRO 2.

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AGA ONLY

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2 great
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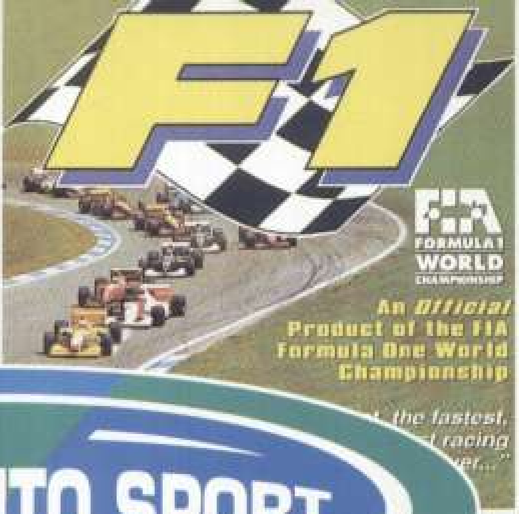
SPRING INTO SPORT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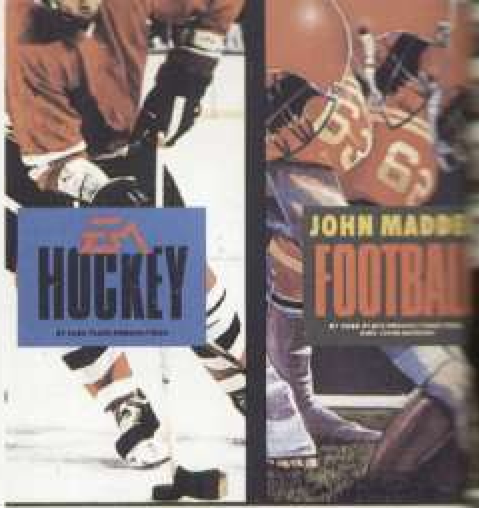
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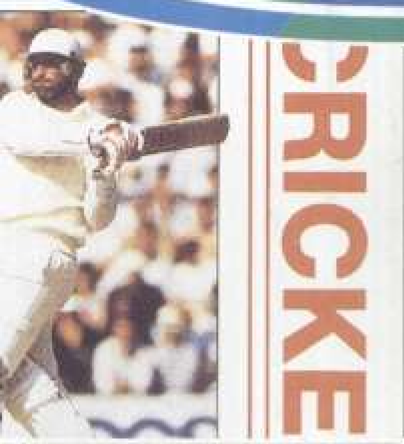
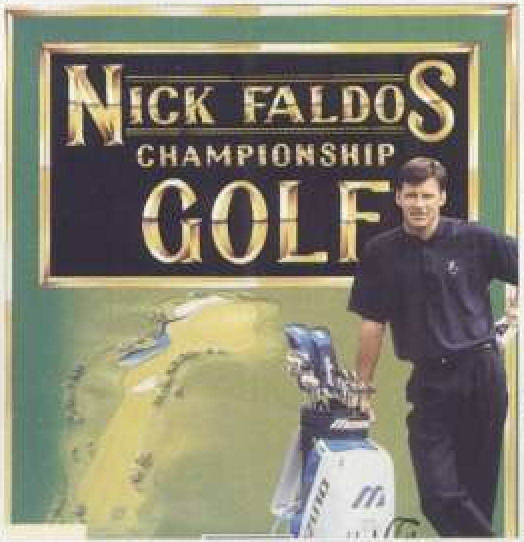
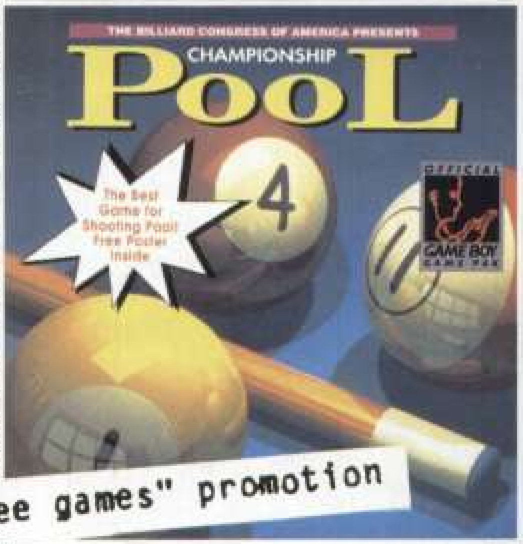
JOHN MADD
FOOTBAL



...with
free
accessories


NICK FALDOS CHAMPIONSHIP GOLF

i can't watch !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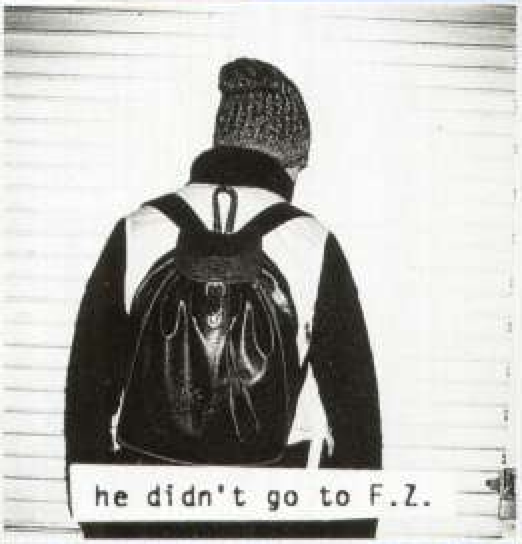
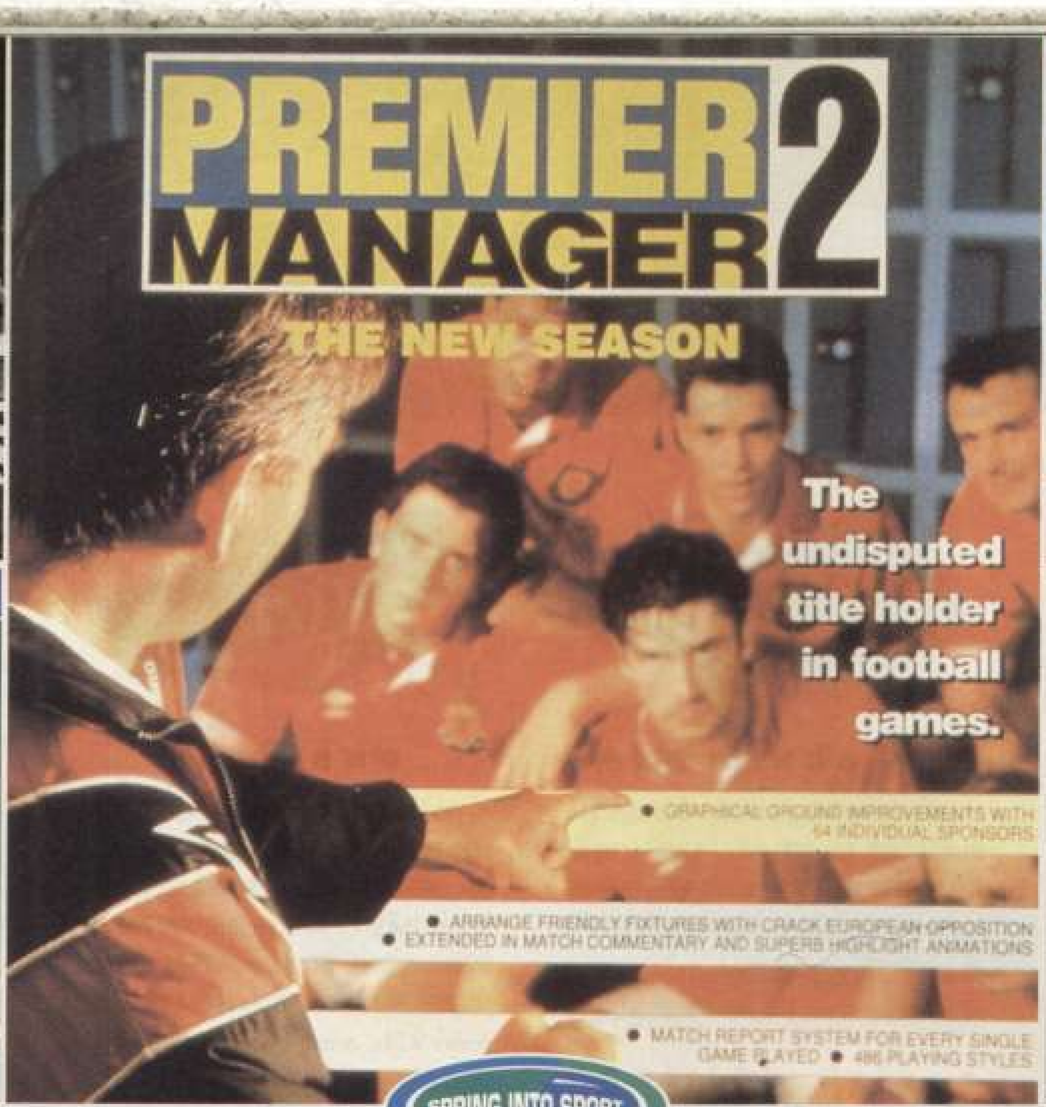

he didn't go to F.Z.

Mood Swings
MAXIMUM 828
i'd give him a half nelson

WRESTLEMANIA CHALLENGE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AMIGA

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FIRST HALF 18:44
WEATHER: COOL BREEZES
BROMSGROVE 7:56
SHOTS AT GOAL 0
PASSES ATTEMPTED 31
TACKLES WON 12
BATH CITY 10:53
SHOTS AT GOAL 3
PASSES ATTEMPTED 34
TACKLES WON 3
GOAL

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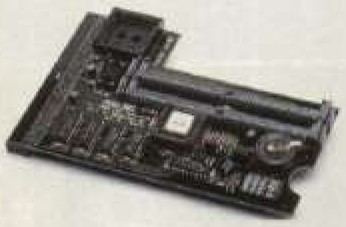
REVIEWS
COMPUTE



PC1202-8

Power Computing and DKB have joined forces to produce the ultimate A1200 32-bit memory expansion. The PC1202-8 uses the latest industry standard 32-bit Simm technology which allows you to use 2MB, 4MB and 8MB modules. Simply by adding either a PC1202-8 to your Amiga 1200 will increase its processing speed by 219%, comes with real-time battery backed clock and optional FPU available.

Bare

PC1202-8	£79.95
PC1202-8 + 68882 20MHz	£99.95

With 2MB

PC1202-8 + 68882 no FPU	£159.95
PC1202-8 + 68882 20MHz	£179.95
PC1202-8 + 68882 33MHz	£199.95
PC1202-8 + 68882 40MHz	£225.95

Trade in your 2MB Simm to upgrade to 4MB or 8MB, telephone for details.

With 4MB

PC1202-8 + 68882 no FPU	£239.95
PC1202-8 + 68882 20MHz	£259.95
PC1202-8 + 68882 33MHz	£275.95
PC1202-8 + 68882 40MHz	£299.95

There is no need to throw away the board if you want to upgrade from 4MB to 8MB. Its simple, just buy an extra 4MB Simm.

Extra 4MB Simm	£159.95

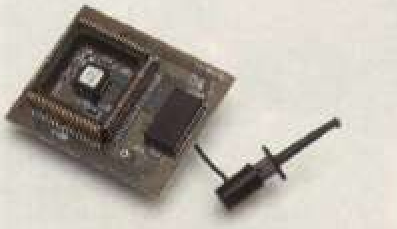
PC1204

The original PC1204 4MB 32-bit memory expansion is still available, and is exceptional value.

PC1204 + 68882 50MHz	£319.95

New Midi Interface

Midi Interface (new Midi chip)	£19.95



MegaChip Ram

Increase your Amiga 500/2000 chip RAM to a total of 2MB. MegaChip does this by using its own 1MB of RAM and drawing extra memory from any other RAM you have installed in your Amiga. No soldering is required.

MegaChip RAM	£159

A500 Memory

A 4-chip 512K RAM expansion with a battery backed clock. Free software included. (A500+ compatible)

A500 Card with clock	£29

A500 8MB

Expand your Amiga 500 from 2MB to 8MB of RAM. Plugs into the side slot, full auto-config, and through port.

2MB Board	£139
4MB Board	£219
8MB Board	£299

Memory Expansions

We manufacture a vast range of memory cards for the Amiga 500, 500+, 600, 1200, 1500, 2000, 3000 and 4000. Please telephone us for prices and availability.

DKB 3128

Up to 128MB of RAM on your Amiga 3000/400 using 4,8,16 and 32MB Simm modules. This is a true Zorro III 32-bit memory board.

DKB 3128 0MB RAM	£279

Octogen SCSI-2

SCSI-2 board for the Amiga 2000 including memory expansion capabilities of up to 8MB.

Octogen SCSI-2	£129

DKB 4091

The DKB 4091 (licensed by Commodore) SCSI Host Adaptor is a high performance board that connects up to seven SCSI devices to your Amiga. The DKB 4091 features: Full Zorro III implementation, fast SCSI-2 implementation, SCSI internal connector and ribbon cable, high density SCSI-2 external connector, direct memory access (DMA) and hardware to install a 3.5" hard drive on the board.

DKB 4091	£299

Video Backup

Use a VCR as a backup storage device. Two hundred Amiga floppy disks fit on to a 4Hr tape which can be used for an alternative hard disk backup system. What's more you can now watch television on your 1084s monitor. A Scart or Phono version is available.

Video Backup Scart	£65
Video Backup Phono	£60

GVP Products

Power Computing can supply all GVP 'High end professional' hardware and software. Please call for your requirements.

EGS Spectrum 24-bit card (2MB)	£389
G-Lock (PAL video genlock)	£299
HC8+ SCSI controller	£129

Hard disks available from 52MB to 1GB

Co-processors

All maths co-processors include crystals.

20MHz	£40
33MHz	£69
40MHz	£89
50MHz (PGA)	£154

DISK EXPANDER

Disk Expander

Disk Expander is an innovative program for all Amiga users. With this software solution you may double the capacity of your floppy disk or hard disk drives. The installation process takes only a few seconds and afterwards DiskExpander works invisible in the background. The compression ratios vary from 30% to 70% depending upon the used compression-algorithms and upon the kind of data.

The easy-to-use graphical user interface guarantees that even the inexperienced user is able to use Disk Expander immediately without any problems DiskExpander does not only expand the capacity o your hard disk drive, even floppy disks now have a storage space of approximately 1.5 megabytes.

The concept of DiskExpander was designed under the aspect of maximum data security and high compression speed. The user decides to which extent the data is condensed by choosing high or medium compression libraries and thu has direct influence on the processing speed.

- Can add 50% to your hard drive capacity at a strok
- Fast compression and decompression
- Flexible and expandable as new compressio libraries are developed
- Works with all drives, including SCSI, IDE Floppies, and even the RAM disk
- Reliable in tests - no data corruption
- Once installed the program is transparent to the use
- Works on any Amiga and any KickStart

Disk Expander	£35

Tandem CD-DE Car

The Tandem CD-DE includes these features

- For 1500/2000/3000/4000
- Supports Mitsuma LU005 CD-ROM & FX001 double speed CD-ROM drives
- Supports Syquest 3.5" drives
- Supports IDE hard drives
- Play audio CD utility
- Requires KickStart 2.04 and above
- Includes cables, software and manual

Tandem CD-DE card	£69
Tandem CD-DE & Double Speed CD	£229

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l cables & Power supply included

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argo Primera Printer

Now you can produce stunning, high quality tput on paper, transparency film or even Shirt transfer from your Amiga. The Primera lour printer, recent recipient of countless awards the IBM-PC and Macintosh markets is also the rfect companion to any Amiga. Primera uses x thermal transfer technology, a technology ually associated with much higher priced nters. Some of the features include, software vers for Amiga, PC and Macintosh, optional oto-realistic upgrade kit (dye sublimation) and onochrome ribbon cartridges available for text nting only.

imera printer	**£649**
oto realistic upgrade kit	**£199**
oto realistic refill kit (100 prints)	**£250**
oto realistic refill kit (25 prints)	**£79.95**
colour ribbon (80 prints)	**£38.95**
colour ribbon (115 prints)	**£38.95**
onochrome ribbon (400 prints)	**£31.95**
mera paper (A4 200 sheets)	**£18**
Shirt transfer paper (A4 10 sheets)	**£17.95**
mera & Studio DS software	**£699**

udio software is a true 24-bit printer driver)

XL Drive

The XL Drive can be used with any Amiga Computer, and allows you to store a massive 1.76MB on a high density floppy diskette. The drive can also act as a standard 880K drive and can read and write disks written on an A4000 internal high density drive. XL Drive requires Kickstart 2 or above.

XL Drive external	**£89.95**
XL Drive internal (all Amigas*)	**£79.95**
XL Drive internal A4000	**£89.95**

PC880B Drive

The new updated PC880B is the most impressive disk drive of its kind on the market. The drive includes a strong aluminium casing, an anti-click device, virus blocker, Cyclone compatible chip and the latest built-in backup hardware which allows X-Copy to copy and verify. What's more you can now control these features through your mouse, so there are no more annoying switches to use.

PC880B with Blitz Amiga	**£70**
PC880B with Blitz & X-Copy	**£80**
PC880B 1.76MB Upgrade	**£49.95**

Features	PC880B	Amitek
Anti-click	●	●
Anti-virus	●	●
Aluminium extrusion	●	
Sony mechanism	●	●
Isolation switch	●	●
Thru'port	●	●
Upgradable to 1.76MB	●	
Cyclone compatible chip	●	
Built-in backup hardware	●	
Mouse operated	●	

PC880E Drive

This drive is a high quality external floppy drive at a fraction of the price. As with all of our drives the PC880E has a thru'port, disabling switch and 12 month guarantee

PC880E Economy Drive	**£49.95**

Internal Drives

We use the same drive mechanisms as Commodore so that you get the kind of reassurance at a cheaper price than other internal drives on the market.

PC881 A500 Internal drive	**£40**
PC882 A2000 Internal drive	**£40**

SCSI/IDE Drives

We can supply SCSI or IDE 3.5"/2.5" hard drives in many different sizes. Including cables and installation software.

80MB IDE 2.5" Internal	**£179**
120MB IDE 2.5" Internal	**£229**
170MB IDE 2.5" Internal	**£270**
52QMB SCSI/IDE	**£169**
80MB SCSI/IDE	**£179**
160MB SCSI/IDE	**£249**
200MB SCSI/IDE	**£349**

Floptical Drive

The Floptical stores 20MB of data on a re-writable 3.5" disk. (A SCSI interface is required)

Floptical A2000 Kit	**£289**
Floptical A500 Kit	**£389**
20MB Floptical Diskette	**£25**

Syquest Drives

The new 3.5" removable hard disk from Syquest stores 105MB on each cartridge, with an accessing time of 17ms. An internal and external version is available. (A SCSI controller is required)

3.5" IDE Internal	**£499**
3.5" IDE External	**£579**
3.5" SCSI Internal	**£539**
3.5" SCSI External	**£599**
3.5" 105MB Cartridge	**£79**

Power Optical

128MB Optical Internal	**£779**
128MB Optical External	**£879**
128MB Optical Disk	**£40**
SCSI Controller A2000	**£129**

Dual Drive

Our Dual Drive is packed with the many features of the PC880B whilst having two drives using only one port. This is another original from Power.

Dual Drive	**£125**

X-Backup Pro

X-Backup Pro (Hardware designed by us)	**£29.95**

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OFF THE CUFF

EDITORIAL

By the time you read this the European Computer Trade Show will be over, and the most exciting new products and software due out over the next six months will have been revealed. Far from being console and PC dominated the show promises a wealth of Amiga launches, re-affirming the Amiga as the premier home entertainment system – in computer or CD console form. Watch out for a full report in the next issue.

And talking about premier home entertainment, you are, at this very moment, reading it. In the games section we cover the tasty *K240* and *Heimdall 2*, among others. On the technical side we look at a mouth watering GVP SCSI compatible interface, drool over *AdPro 2.5* and whinge about *Wordworth 3* – long awaited, but sadly understated.

The CD32 section is our biggest yet, covering FMV movies as well as the best games available, and the lead feature is all about how *Simon the Sorcerer* got Chris Barrie's voice and how the stars are getting in on the CD revolution. It started on the PC but it could soon move on to the Amiga – thanks to CD32. Until I get my breath back next month, farewell!

Alan Dykes
Editor

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CU AMIGA CONTENTS

18 NEWS

One month ago it seemed as though any sort of official CD-ROM system for the A1200 was unlikely. Other magazines said it wouldn't happen, we remained hopeful. We spoke to Commodore about it. The rumour mill is a funny old thing isn't it? Because of competitive, financial or technological considerations, large companies like Commodore have have to keep quiet about their product launch plans until they are finally decided upon. In the meantime speculation can lead to all sorts of conclusions – super A4000s, CD64s etc. Many rumours are pie in the sky, and although some might turn out to be true in the long term, the most important consideration for anyone must be fact. Turn to page 18 for some facts.

GET SERIOUS

PRODUCTIVITY REVIEWS PRODUCTIVITY REVIEW PRODUCTIVITY REVIEW

This month we try out not just one, not two, but four major upgrades – *AdPro*, *Wordworth*, *Final Writer* and *Music X*. The latest hardware also under goes indepth testing with an exclusive look at the first A1230-II upgrade – the A1291 SCSI interface, a review of the new Amitek disk drive and the latest scanner from Golden Image and loads more!

98 SCSI CD-ROM Drives
We test some of the more prominent contenders for your beer vouchers to find the best buys.

98 SCREEN BEAT 3
Let's face it, those tinny speakers on your monitor can't do your Amiga's sound justice. Can Spectravideo's alternative speakers even the scales?

99 CLIPART
Take a look at what the latest commercial offerings can do for you.

99 AMITEK DISKDRIVE
We rate the new drive from Amitek.

100 ADPRO 2.5
The premier image processing system has just had a radical update – it's all change at *AdPro* Central, so don't miss the bus, check the review that's currently standing on platform 100.

106 WORDWORTH 3.0
Could this be the first software package to be downgraded?

108 FINAL WRITER 2.0
The best Amiga wordprocessor upgraded.

111 VISTA PRO LITE
The popular fractal landscape generator is now available for Amigas with just 2Mbs of RAM

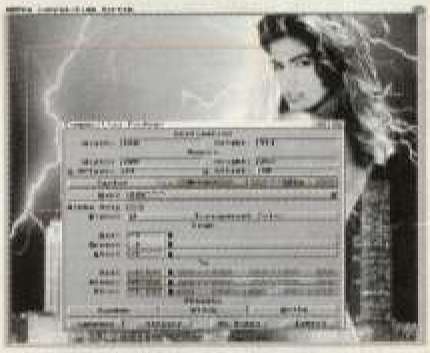
112 GVP A1291 SCSI INTERFACE
An exclusive review of the first A1230-II expansion.

117 MULTIFRAME FOR ADPRO
The latest plug-in for *AdPro*.

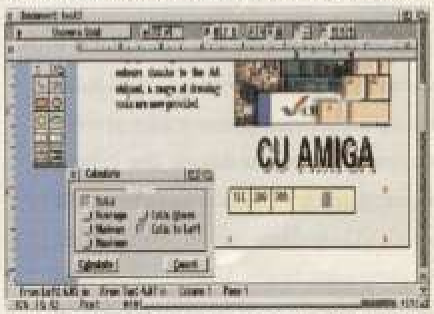
120 ALFASCAN 800
Could this be the scanner to send you into eternal bliss?

124 STUDIO 16 3.0
The 16-bit sampler gets a whole new look.

126 MUSIC X 2.0
The ultimate MIDI sequencer?



***Art Department Professional* as you've never seen it before! Read all about it on page 100.**



***Wordworth* reaches release version 3, but is it a step in a wrong direction?**

***Vista Pro Lite* has been on a strict high fibre diet. Now it can just fit into 2Mbs.**

26 STARS ON CD

Because CDs have so much space lying around, you can expect to see and hear great things. We exclusively reveal *Simon the Sorcerer*, with a complete star studded voice-track and take a look at how CD games are taking the industry by storm in the good old US of A. We simultaneously reveal just how versatile Tony Dillon actually is.

SCREEN SCENE

GAME REVIEWS GAME REVIEWS GAME REVIEWS GAME REVIEWS

Run for cover, the big ones are coming! As we enter the spring, software houses begin to bombard us with all the really huge games they've been threatening for yonks. *K240* from Gremlin, *Heimdall 2* from Core Design... wouldn't it just top it all if *Cyberspace* finally appeared? You should be so lucky.

54 **FIRST IMPRESSIONS**
A First Impressions festival this month, as we smash our way through nearly three pages of early looks.

58 **DIGGERS 2**
Not so much a sequel as a follow up. Toby Simpson's stunning new strategy title gets an exclusive preview.

61 **CLUB FOOTBALL - THE MANAGER**
Imagine Software are a new label for Amiga owners, but if designer Keith Wadham has his way, they'll soon be on everyone's lips.

62 **ROBINSON'S REQUIEM**
Silmarils' hyper realistic survival simulation gets a full going over. How did they get it looking so good?

66 **K240**
The full review to the game that many people are calling *Utopia 2*, and it's a stormer.

68 **HEIMDALL 2**
The 8th Day return right in the middle of Sequel Season and show the world how a graphic adventure should be done.

71 **INNOCENT UNTIL CAUGHT**
Psygnosis steps into the adventure world, and we were there to take the photos.

79 **CLUB COMPO**
How do you fancy getting your hands on a table football game? We thought you might, so here's your chance.

80 **APOCALYPSE**
Remember *Choplifter*? Now forget it, because this is where the real challenge lies, courtesy of Virgin Interactive Entertainment.

87 **VFM**
It's pocket money pleasure time again as we delve into the latest batch of releases and recommend some cheap thrills.

Sail the seven seas and wander about a bit in *Heimdall 2*

Asteroid bonkers in *K240*

Get digging again, Toby's back!

Fancy ripping up a rainforest? *Apocalypse* could well be up your alley.

REGULARS........

8 **COVERDISKS**
See the panel on the opposite page

18 **NEWS**
World exclusive: Commodore announce the official A1200 CD-ROM drive. After all the speculation the CD drive becomes a reality. Find out all the details plus everything else that's happening on page 18.

39 **CD32 ZONE**
Part two of our Diary of a CD Game, plus reviews of *Ultimate Body Blows, Donk!* and *Nick Faldo's Championship Golf.*

130 **PD SCENE**
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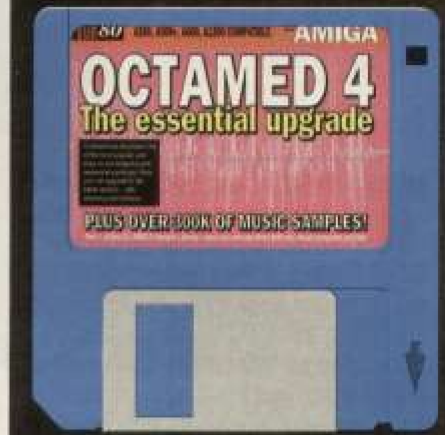
ABC 112, 780
July-December 1993

DISKS

This month we give you an amazing THREE disks! The stunning *OctaMED Version 4* is yours for keeps, and there are also brilliantly playable demos of *Bubble & Squeak*, *Banshee* and *Bump 'n' Burn*. All of that plus a massive 300K of samples and fonts too!

DISK 80 PAGE ?



If you're into music, *OctaMED* is a dream come true. If you're not, you soon will be with *OctaMED 4*! It's unbeatable when it comes to putting your musical ideas into action. There's also an exclusive tune and stacks of sounds to get you started!

DISK 81 PAGE ?

81
AMIGA
BUBBLE & SQUEAK
PLUS: Fonts and clipart Special!
AGA

Is this the greatest A1200 game ever? Let CU AMIGA take you to platform heaven with Audiogenic's *Bubble 'N' Squeak*. If it doesn't keep you playing for weeks, then nothing will. PLUS: a selection of colour fonts and some hi-res mono clipart to use

DISK 82 PAGE ?

82
AMIGA
BUMP 'N' BURN
BANSHEE
AGA

Another AGA only game demo for all you lucky A1200 owners in the form of Core's Banshee – fly your biplane against some of the meanest enemies ever seen. PLUS a full demo of Grandslam's *Bump 'N' Burn* for all Amigas. Carting crazy!

80
AMIGA
OCTAMED 4
The essential upgrade
PLUS OVER 500K OF MUSIC SAMPLES!

COVERDISK 80

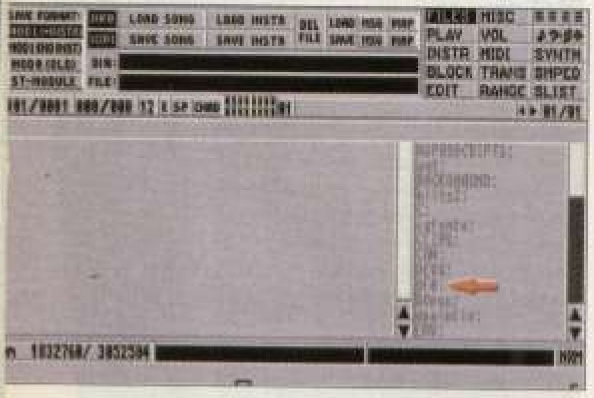
You simply won't believe your ears when you hear *OctaMED 4*, a complete, fully-functional sample and MIDI sequencer – yours to cherish for ever and annoy the neighbours with. Tony Horgan's even knocked up a tune for you too. Fab eh?

OCTAMED V4

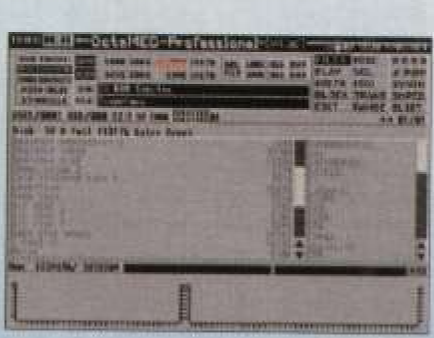
To get the best out of *OctaMED 4*, connect your Amiga's audio outputs to a hi-fi through the CD/AUX input. This will give you much better sound reproduction than you'd get from a TV or monitor. It's a good idea to format yourself a blank disk before you start, so you can save out your songs as you go. For instructions on loading *OctaMED*, see page 17.

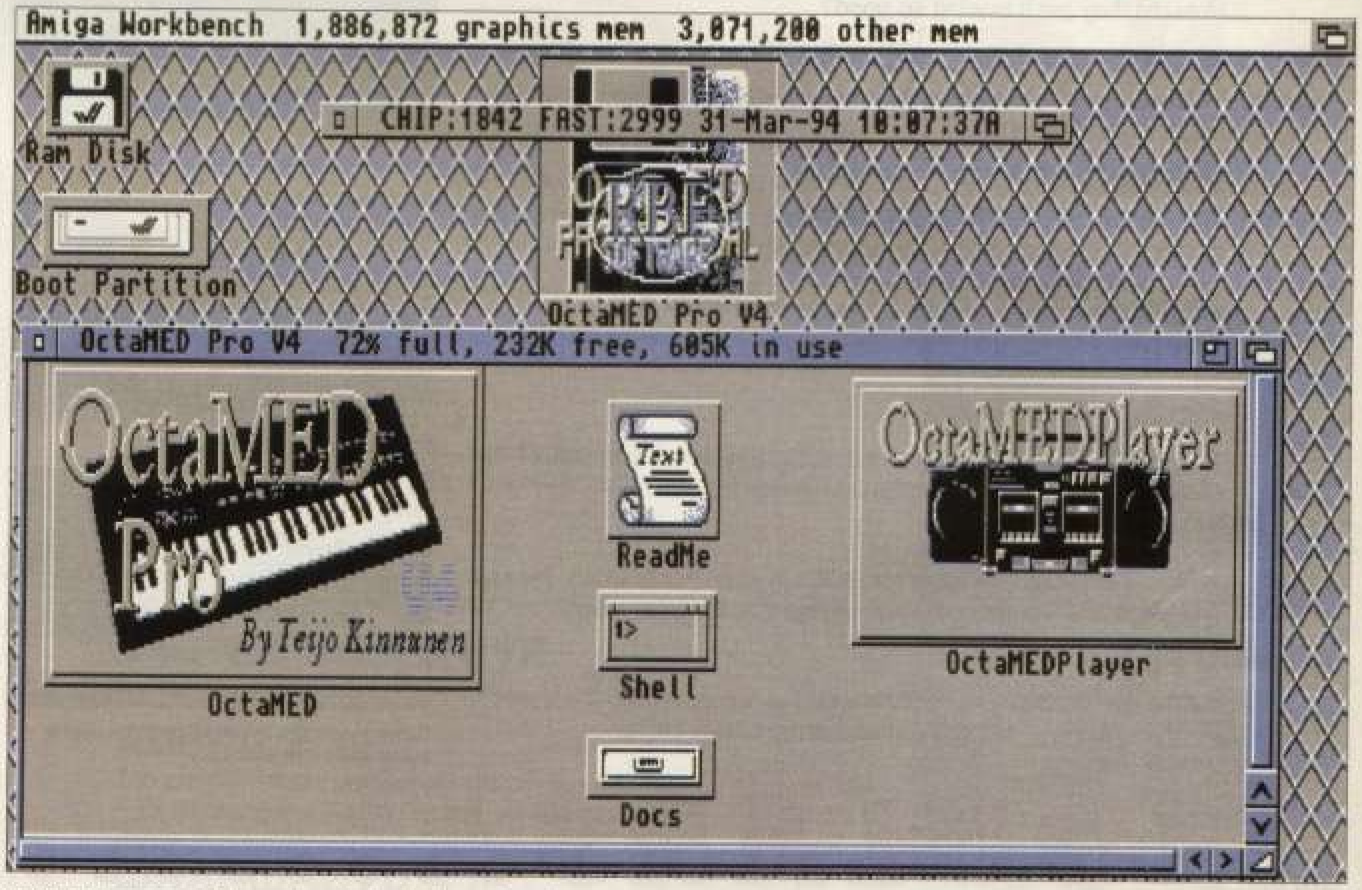
Once *OctaMED* has loaded, the first thing to do is load in the demo song from Disk 80. Click on the FILES button to access the file requester.

A directory listing of the *OctaMED* disk will be loaded and displayed. There is a samples directory on this disk, but it just contains one sound. For now we'll use the sounds on Disk 80. Once the drive light has gone out, replace the *OctaMED* disk (see page 17 for instructions on how to make the OctaMED disk) with Disk 80, and click on DF0: in the devices list on the right of the screen.



Click on the Samples directory on the left of the screen. Move through the list of samples by either clicking and dragging the slider bar, or by clicking the up and down arrows. Find the file named Covertune, and click on it once. Move up to the top of the screen and click the LOAD SONG button.





Amiga Workbench 1,886,872 graphics mem 3,071,200 other mem

CHIP:1842 FAST:2999 31-Mar-94 10:07:37A

OctaMED Pro V4 72% full, 232K free, 605K in use

You're just a mouse click away from the best all-round music program ever created for your Amiga.

The song data will be loaded in, followed by the samples it needs. Once the song has loaded, click on the PLAY SONG BUTTON and crank up the volume. The song loops after about three and half minutes, so press the spacebar to stop it when you've had enough. Alternatively, click the STOP button from the PLAY panel. By the way, if you notice that the drum loop starts to run out of time towards the end, it's because the sample is saved with a loop. To rectify this, move to the Hard Stop Break sample, enter the sample editor and click the LOOP button. Don't worry if that sounds a bit complicated now, we'll go into more detail later.

BASIC OPERATION

Okay, let's get down to basics. In normal operation, *OctaMED 4 can* play back up to four samples at once, although a song can use up to 63 samples in all. Songs are constructed from blocks, which are usually 64 lines long with four tracks. When you've created a few blocks, you can string them together in any order you like, regardless of the order in which they were created.

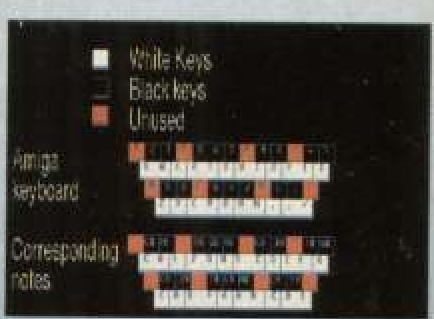
Tracks can be recorded in either realtime or step time. Step time recording is when you move through the track with the cursor keys, and insert notes and commands at the relevant points. Realtime recording is when you play a sequence of notes 'live' from the keyboard, as the block runs from start to finish.

TRY OUT THE SAMPLES

Before you get in too deep, have a quick play around with the samples. All of those on the disk were sampled to be played back on *OctaMED*'s third octave. When *OctaMED* boots, it's set up to play octaves one and two.

Press the F2 key to change this to two and three. Now you can use the Amiga keyboard to play back the samples, as if you were using a piano or synthesiser keyboard. Take a look at the diagram below to see which keys simulate which notes on a piano keyboard.

»



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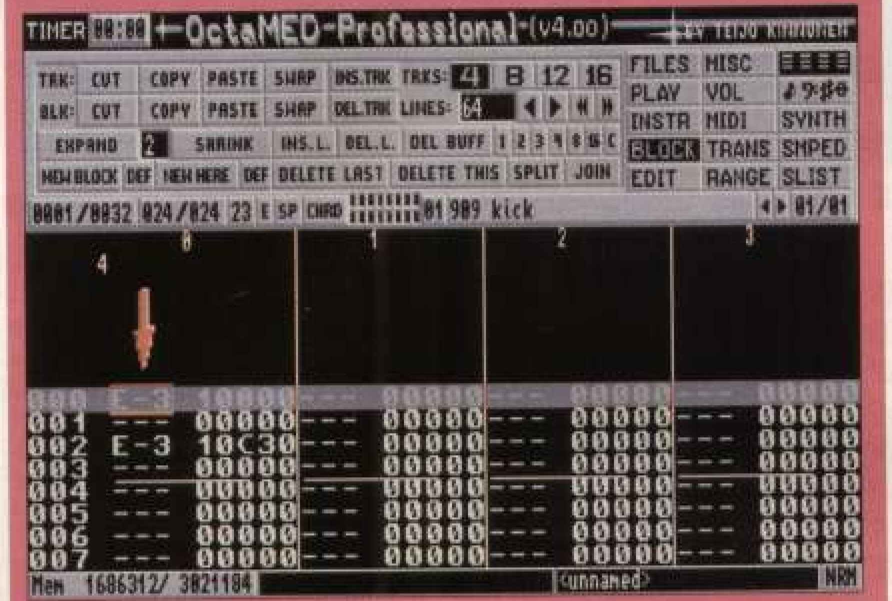
COMMANDS

When you loaded the demo song, you probably noticed a lot of confusing-looking numbers and letters in the columns of each block. These are call commands, and they give you further control over the playback of each note. Look at the picture below. Reading from left to right on the top line, the first three numbers are the line number. This is followed by E-3, which is the note (E) and the number of the octave (3). The next digit indicates which sample is being played, in this case number one. The following two digits are the command number. The command 0C is the volume command. The two digits after this are the value for the command.

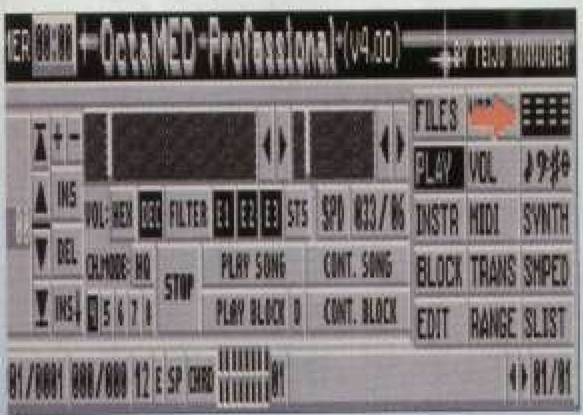

TIMER 00:00
OctaMED-Professional (v4.00)
BY TEIJO KINNUNEN
TRK: CUT COPY PASTE SWAP INS.TRK TRKS: 4 8 12 16
BLK: CUT COPY PASTE SWAP DEL.TRK LINES: 64
EXPAND 2 SHRINK INS.L. DEL.L. DEL BUFF
NEW BLOCK DEF NEW HERE DEF DELETE LAST DELETE THIS SPLIT JOIN
FILES MISC
PLAY VOL
INSTR MIDI SYNTH
BLOCK TRANS SMPED
EDIT RANGE SLIST

```
0001/0032 024/024 23 E SP CHRD 01 909 kick          01/01
        0           1           2           3
000 E-3 10000 --- 00000 --- 00000 --- 00000
001 --- 00000 --- 00000 --- 00000 --- 00000
002 E-3 10C30 --- 00000 --- 00000 --- 00000
003 --- 00000 --- 00000 --- 00000 --- 00000
004 --- 00000 --- 00000 --- 00000 --- 00000
005 --- 00000 --- 00000 --- 00000 --- 00000
006 --- 00000 --- 00000 --- 00000 --- 00000
007 --- 00000 --- 00000 --- 00000 --- 00000
Mem 1686312/ 3021184            <unnamed>        NRM
```

The second time the sample (the bass drum in the case) is played, it's played with a volume level of 30. *OctaMED* uses volume levels from 0 to 64, so 30 is about half of full volume. If no volume command is used, the sample is played at full volume. Volumes are specified in decimal, but most of the other commands require hexadecimal values. Unfortunately we don't have room here to go into an explanation of hexadecimal. Basically, instead of using base 10 like decimal, hexadecimal uses base 16. After 9, hex goes on to A, B, C, D, E and F. F is followed by 10, 11, 12, 13...19, 1A, 1B etc. Ask a maths boffin to explain if that makes no sense.

There's a list of all the commands in the Commands document on the *OctaMED* disk. Read this for details on the rest of the commands. We'll cover the commands in more detail in follow-up tutorials in future issues.

To move through the various samples in the song, use the SHIFT key along with the left and right arrow keys. You'll see the name of the selected sample change as you move from one to another. Have a prod with each sample, and see if you can knock out a little riff or rhythm. To try out some of the other samples on the disk, use shift and the arrow keys to move to a blank sample spot, then click on the FILES button. Move up and down through the directory listing and click on the name of the sample that you want to load, and then click the LOAD INSTR button. You can play back your new sample from the keyboard as before. To return to the main song editor, click the button in the top-right corner of the screen marked with four sets of horizontal lines, as seen below.

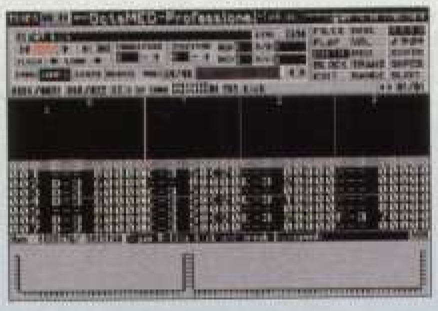

OctaMED-Professional (v4.00)
BY TEIJO KINNUNEN
INS
DEL
INS
VOL: HEX DEC FILTER
CHMODE: HQ
STOP
PLAY SONG
PLAY BLOCK
CONT. SONG
CONT. BLOCK
SPD 033/06
FILES MISC
PLAY VOL
INSTR MIDI SYNTH
BLOCK TRANS SMPED
EDIT RANGE SLIST
01/0001 000/000 12 E SP CHRD 01
01/01

ALTERING THE SONG

Instead of clearing the whole song and attempting to make a new one from scratch, try making your own amendments to the song you've got loaded. Follow these steps to put a simple bass drum beat on the first block in the song.

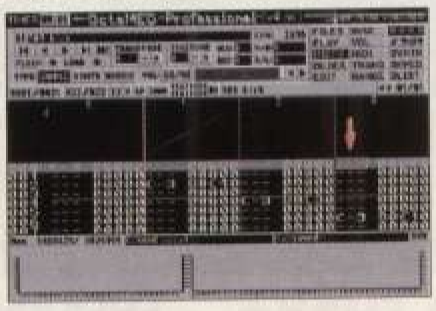
1. Hold down the shift key and the left arrow key together until the first instrument (909 kick) appears in the instrument box.

Alternatively, click the INSTR button, and the click the button as in the shot below, which automatically takes you straight to the first instrument. Click on the PLAY button to return to the main screen.



2. Use the shift and up and down arrow keys to move to block number 22, which is titled "Echoed vocal". This is the first block in the song sequence. You'll know when you've got the right block selected, as the name will appear in the slot at the bottom of the screen.

3. Use just the arrow keys (no shift) to move the little red square to the top of the track on the far right.



4. Click on the BLOCK button, and locate the CUT button just to the right of the letters TRK in the top left corner of the screen. Click on this to cut what was previously in the current track.

5. The 909 kick sample plays back at its original pitch if you press the key corresponding to E octave 3. Press the F2 key to switch the Amiga keyboard to octaves two and three. Now when you press the E key, you should get a thumping bass drum sound through your hi-fi.

6. Press the ESCAPE key or click the tiny E button located just beneath the main play panel. This will put you into Edit mode, so next time you cue a sample, it will be written into the current track.

7. To put down the basic bass drum beat, press the E key, and move down to line four by pressing the down arrow three times. Press the E key once again, followed by another three presses of the down arrow. Continue this until you reach the end of the block.

8. Click on the PLAY button, followed by PLAY BLOCK to hear the results. If you're happy with it, and don't want to make any more changes just yet, press the ESCAPE key once more, or click the E button. This will take you out of edit mode, and allow you to play back the samples without over-writing any of the tracks.

9. Click PLAY SONG to hear the whole song with your exciting new bass drum intro!

MAKING A NEW BLOCK

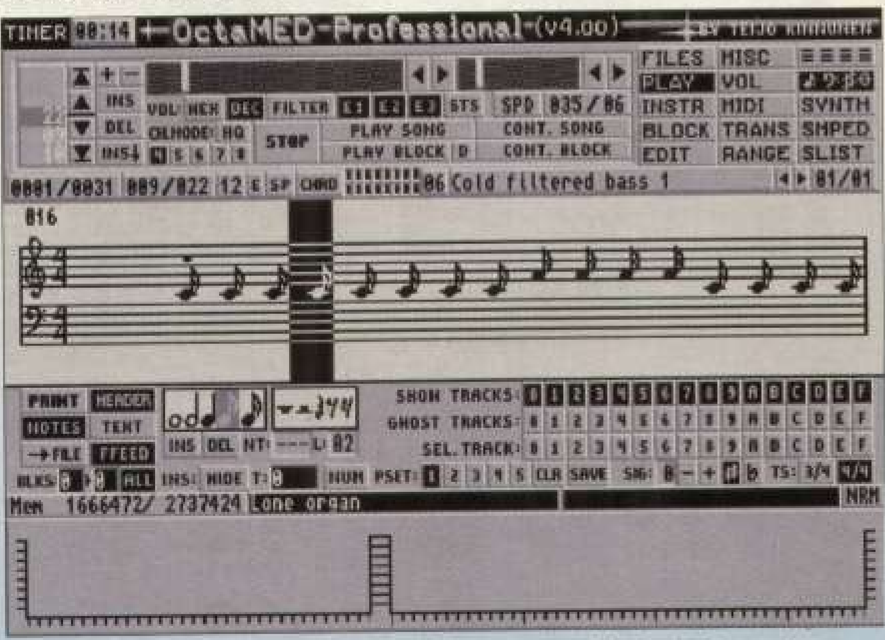
Now you can have a go at recording a whole new block. The first thing to do is set up a new blank block. Do this by clicking the BLOCK button, followed by NEW BLOCK. Use shift and the down arrow to get to your new block, which will be number 23. Lay down a simple beat like you just did for the first block. This will act as a metronome. Set the block playing by clicking the PLAY BLOCK button from the PLAY panel.

Select another sample, such as 'Chewy organ 2' for example. Take *OctaMED* out of edit mode, move the little red square across to another track, and try out some riffs on the keyboard, while the bass drum bangs out the simple beat.

When you find something you like, go back into edit mode, and play your riff. It will now be recorded onto the where you've positioned the small red box.

Once the block has looped round to the start of your recording, press the spacebar to stop it. If there are any timing errors, you can go and correct them in step time, by moving through the block with the arrow keys, inserting or deleting notes as necessary. Use the DELETE key to take out any unwanted notes.

You should now have two tracks of sound. To build this up to four, move the little red box over one of the two empty tracks, and repeat the recording process with a different sample, and do the same for the


TIMER 00:14
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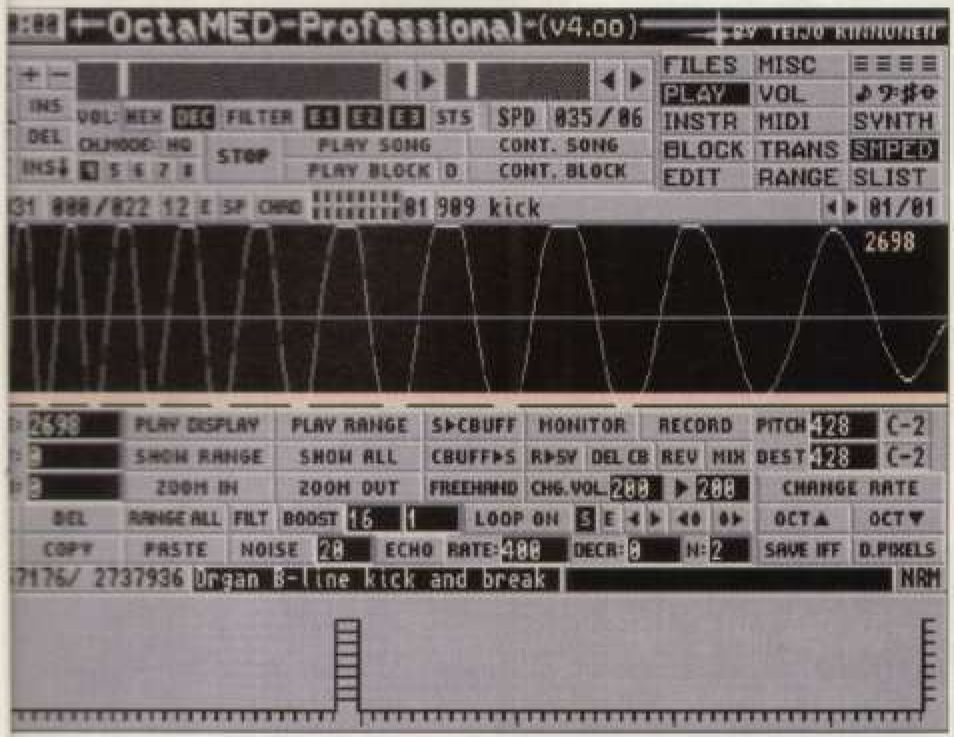
BY TEIJO KINNUNEN
INS
DEL
INS
VOL: HEX DEC FILTER
CHMODE: HQ
STOP
PLAY SONG
PLAY BLOCK
CONT. SONG
CONT. BLOCK
SPD 035/06
FILES MISC
PLAY VOL
INSTR MIDI SYNTH
BLOCK TRANS SMPED
EDIT RANGE SLIST
0001/0031 009/022 12 E SP CHRD 06 Cold filtered bass 1
01/01
016
PRINT HEADER
NOTES TEXT
→FILE FFEED
SHOW TRACKS
GHOST TRACKS
SEL. TRACK
INS DEL NT: L: 02
BLKS
INS: HIDE T:
NUM PSET:
CLR SAVE SG:
TS: 3/4
NRM
Mem 1666472/ 2737424 Lone organ

OctaMED has an alternative tack-display mode, using a more traditional stave-type system.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FILES
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VOL
INSTR
MIDI
SYNTH
BLOCK
TRANS
SMPED
EDIT
RANGE
SLIST
INS
DEL
VOL: HEX DEC
FILTER
CHLMODE: HQ
STOP
PLAY SONG
PLAY BLOCK
CONT. SONG
CONT. BLOCK
SPD 035/06
01 909 kick
2698
PLAY DISPLAY
PLAY RANGE
S▶CBUFF
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D.PIXELS
Organ B-line kick and break
NRM

This is the sample editor. From here you can grab your own sounds, then cut them up and process them to suit your needs.

final track. When you've built a whole block, it's a good idea to name it. When you're flipping through block after block, it can be hard to find exactly the one you're after, so if you give each block a name that describes what's going on in the block, it makes it all a lot clearer. Click the mouse in the box just to the right of the free RAM indicator at the bottom of the screen (it will read something like Mem 250283/101312).

Type into this box a name for the current block, and press return. If you press shift and the up and down arrows to move to a new block, you'll see the name change.

Got the idea? By the way, if you were to load your song into *OctaMED 5* and look at the block list, you'd get a list of the block names, as well as the numbers.

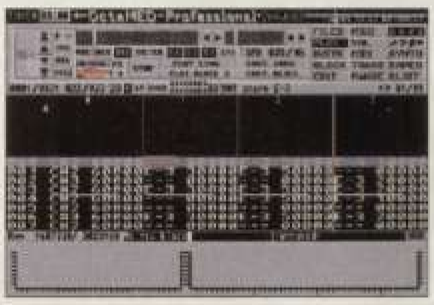
THE REST OF IT

OctaMED 4 **is a massive program, and to explain everything in the space we have this issue would be impossible. On the *OctaMED 4* program disk you'll find some documents detailing keyboard installation, the commands, hard drive installation, new features for version 4 and a few others. To read these, just double click their icons. You'll find them in the Docs directory.**

Starting next issue, and continuing for quite a few successive issues, we'll be concentrating on each aspect of *OctaMED 4*, with easy to follow instructions that will just about cover every nook and cranny of the program. Tune in next month for more!

ADD A BLOCK TO THE SONG

With a new block under your belt, you can now add it to the song. For now, let's add the block to the start of the song. From the PLAY panel, locate the up and down arrow buttons in the top left corner of the screen. These let you move through the song, one block at a time. Click the top arrow that's capped with a horizontal line – this takes you to the start of the song. Click the INS button that has the down arrow beside it to insert the current block into the sequence. To put more than one copy in, just click the INS button again. To remove a block from the list, position the highlight over it, and click the DEL button.



You might want to create a block to follow on from the one you've just created, maybe with the same beat and bassline, but with alterations to a couple of the tracks. You don't need to re-record the two tracks you want to keep. Make a copy of the first block, and then amend the bits you want. To do this, select NEW BLOCK from the BLOCK panel. Then, making sure you have the first block currently selected (click PLAY BLOCK if you're unsure), click on the lower of the two COPY buttons on the BLOCK panel (the top line of buttons affects the current track, while the lower line affects the current block).

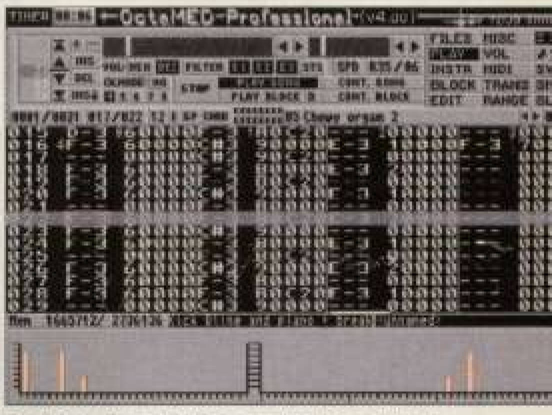
Use shift and the down arrow key to move to your new blank block. Now use the BLK: PASTE button to paste in a copy of the previous block. You can now mess around with it and make any changes, without affecting the original. Add this new block to the song with the INS button as described above.

SAVING A SONG

At various points in the creation of your song, it's a good idea to save it out to disk. Get your blank formatted disk that you prepared earlier (if you booted from Workbench or a hard drive, you can format one now if you didn't before). Click on the FILES button to access the file requester, and wait for any disk activity to finish. Insert your blank disk into the internal drive, and click on DF0: in the devices list on the right of the screen. A directory listing of the blank disk will appear on the left of the screen, which will just show the trashcan as the disk is empty at the moment.

Click in the FILE slot, type in the name of your song and press return. Now click the SAVE SONG button. This will save out your song (or module as it's also referred to) complete with all the samples that it uses. The song on the coverdisk was saved without its samples.

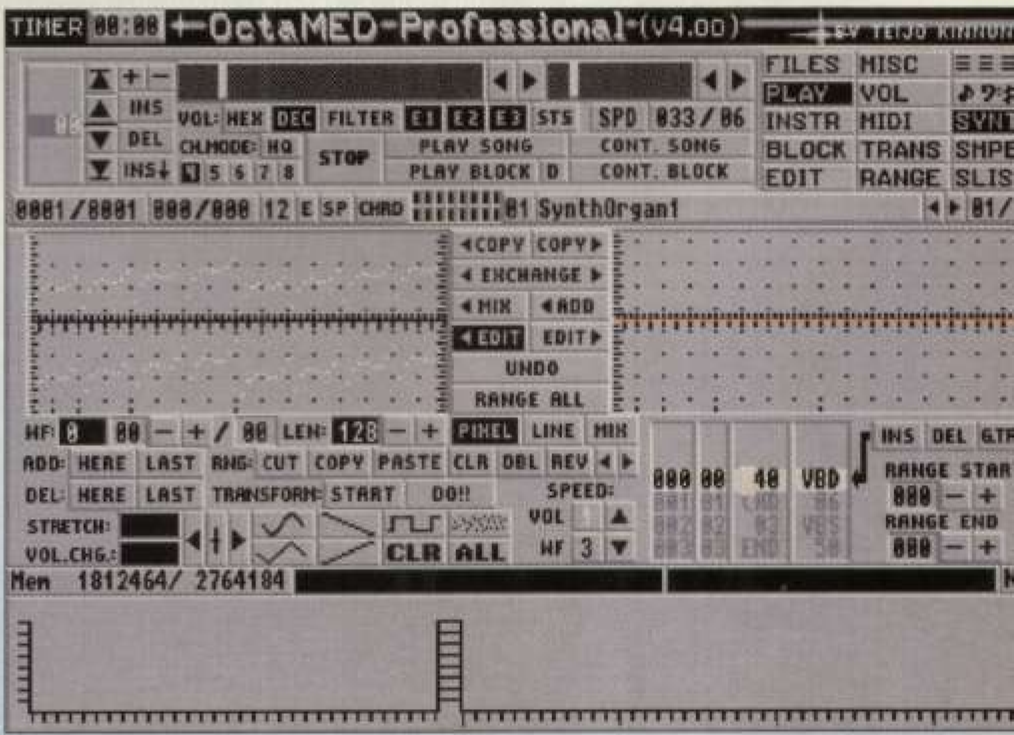
We were able to do this as all the samples it uses are in the same directory on the disk, and are therefore loaded automatically when you load the song. The advantage of this is that the song file without the samples only takes up 26K, as opposed to the 171K taken up by the same song saved out with the samples.



Don't fret– it's not half as complicated as it looks.

To switch between saving the song with the samples and without, click either the MOD1(+INSTR) button or the MOD1(NOINSTR), the first of which will save with the samples, the second without. There are also two other save formats: MOD0 (OLD) and ST-MODULE. MOD0 (OLD) is the format used by older versions of MED, *OctaMED*'s forerunner, included for backwards compatibility. ST-MODULE saves out songs in standard Soundtracker module format. This is a valuable option, as it gives compatibility with all kinds of software. There are a few points to bear in mind when using this option, such as having to use the more approximate secondary tempo.

In general, you'll probably find it best to save out your songs with the samples. These can then be played independently of the main *OctaMED* program, via the *OctaMED* Player utility. If the *OctaMED* Player program is present on the same disk as the song file, you can play the song from Workbench by double-clicking its icon. Alternatively, you can run the player from CLI or SHELL with the command OCTAMEDPLAYER songname {return}. For the CLI method to work, *OctaMED* Player will have to be in either the current directory or the C directory.


TIMER 00:00
OctaMED-Professional (v4.00)
FILES
MISC
PLAY
VOL
INSTR
MIDI
BLOCK
TRANS
EDIT
RANGE
INS
DEL
VOL: HEX DEC
FILTER
CHLMODE: HQ
STOP
PLAY SONG
PLAY BLOCK
CONT. SONG
CONT. BLOCK
SPD 033/06
0001/0001 000/000 12
01 SynthOrgan1
◀COPY COPY▶
◀ EXCHANGE ▶
◀MIX ◀ADD
◀EDIT EDIT▶
UNDO
RANGE ALL
LEN: 128
PIXEL
LINE
MIX
ADD: HERE LAST
DEL: HERE LAST
RNG: CUT COPY PASTE CLR DBL REV
TRANSFORM: START DO!!
STRETCH:
VOL.CHG.:
CLR ALL
SPEED:
VOL
WF 3
INS DEL
RANGE START
RANGE END
Mem 1812464/ 2764184

Such is the power of *OctaMED*, it can even synthesise its own sounds.

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MEEETING ROOM RESERVATIONS
The Bicycle
The Earth
The Cheetah
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The Best Selling Word Processor and Database just became even better...

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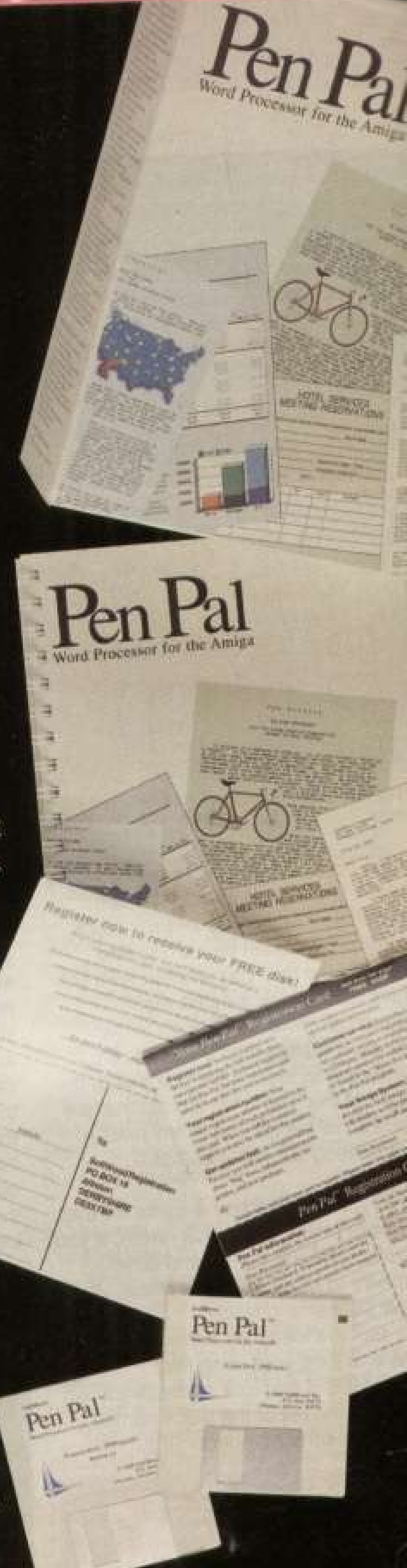
Since its launch, Pen Pal has become the most popular package of its type

Not surprising when you consider the extensive features at your fingertips, combined with user friendly simplicity, it was bound to be a winner! In a comprehensive Word Processor test, Amiga Format commented "There is little to fault Pen Pal, it deserves to do well" - quite a prediction it seems! Format have since said that it's "Still the best value for money..." If you're not a Pen Pal user yet, we hope you soon will be, because at just £39.95... the best just became better, even better value!



Pen Pal

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81
AMIGA
BUBBLE & SQUEAK

COVERDISK 81

How many magazines give you three great games, the best MIDI and sample sequencer there is AND a collection of clipart and glorious colour fonts? There is, of course, only one – CU AMIGA.

BUBBLE & SQUEAK

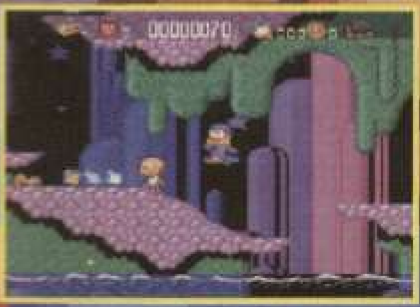
You saw the review last month of this absolutely brilliant platform game, and now's your chance to get stuck in and enjoy it. This A1200 only demo needs to be unpacked before you can play it, so make sure you've got a blank disk ready when you double click on the program icon. Swop disks when told to, and once you have the all clear, reset your machine and load the *Bubble & Squeak* demo.

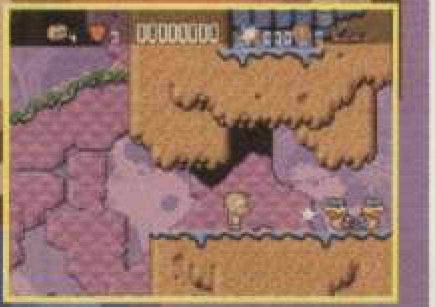
Audiogenic have been kind enough to give CU AMIGA's readers no less than three complete playable levels of the game, taken from various sections. The challenge is the same for all three, however.

You, as Bubble, have to locate Squeak and get him to the exit. Not as easy as it may sound, especially when you consider that Squeak can't run as fast as you, or jump as high... Unless of course, he's in Bubblegum mode, where the two characters join forces and move higher and faster than ever.

It'd take pages to fully explain how to control Bubble, so here's a quick run down of what your joystick will do for you. Note: This demo only supports a one button joystick. The finished game supports up to three buttons.

Other controls:When standing directly in front of Squeak, holding down the fire button and pressing up on the joystick will make Squeak throw Bubble into the air. Standing next to Squeak and pressing the fire button will make Bubble kick Squeak off at a very high speed.

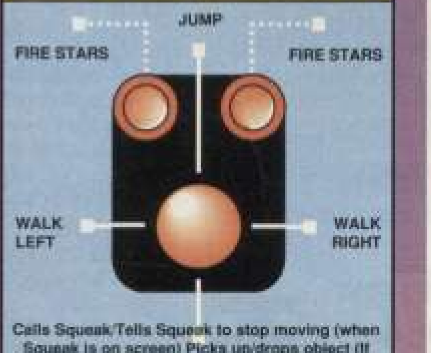




HOW TO ENTER BUBBLEGUM MODE

This is easy, once you know how. First you need to collect three coins by killing enemies. Then find the Bubblegum machine and bring Squeak to it. Stand on the left with Squeak on the right and pull down three times to put the three coins in the slot. Next, press fire to kick a bubblegum ball into the air. Squeak will catch it and you can then jump on his back. When you want to get down, pull down and away you go.

TAKING CONTROL



Calls Squeak/Tells Squeak to stop moving (when Squeak is on screen) Picks up/drops object (If you are standing behind an object.

FONTS & CLIPART GALORE!

Fonts... the life blood of DTP, video titling, word processing and graphics. Without a good collection of varied typefaces your documents will look dull, bland and uninteresting. Yet add a few well chosen type styles and your text will burst into life. With variety and imagination the use of different Serif and Sans Serif fonts can completely change the look of a page – having more impact than the inclusion of pictures and clipart.

And, talking of clipart, the use of illustrations in video captions and DTP will give your production the sort of professional look and feel that a designer would be proud of. It's an old but true saying that a picture is worth a thousand words and, well, we agree with old sayings. In the fast paced, visually orientated, world that we live in the importance of pictures is now more important than ever before. Take a look around you, there are now so many different »

JARGON BUSTERS

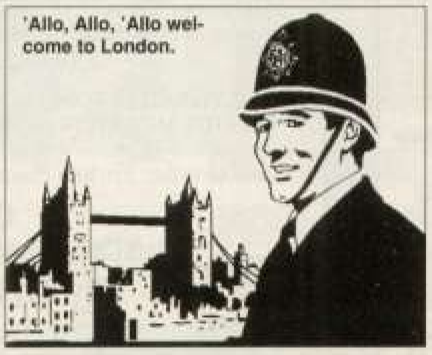
- **SERIF FONTS: The general name for fonts that have little flourishes on the corners and external edges. Fonts of this kind were designed to be used whenever there is a lot of text to read. The idea being that the flourishes fool the eye into believing that the individual letters are joined, and thus make it easier to read.**
- **SANS SERIF FONTS: The opposite of Serif fonts, typefaces of this kind have sharp edges and corners. These type styles are designed to be used for headlines, being harder on the eye, and making them stand out.**
- **COLORFONTS: Normal Amiga fonts can contain only one colour. Colorfonts however can have a large number of different colours in their design and are often used for fancy designs and video titling. The fonts on Coverdisk 81 are all Colorfonts.**
- **CLIPART: A collection of pictures of objects, people and places that can be used to illustrate your documents.**
- **IFF: A description for the structure of files. IFF is the most common type of graphic file on the Amiga and can be used in practically every single Amiga graphics program.**
- **DTP: Short for Desk Top Publishing, a type of program used for creating brochures, adverts, books and anything else that requires text and graphics to be mixed on a page.**

A QUICKSTART GUIDE TO USING THE FONTS AND CLIPART

Both the fonts and clipart on Coverdisk 81 can be used straight away. If you are familiar with the Amiga follow our QUICKSTART GUIDE below, if not turn to page 17 now.

FONTS:
1. Write protect your disk.
2. Copy the fonts from the drawer 'FONTS' on the Coverdisk to your Workbench 'FONTS' drawer.
3. Restart your Amiga – the fonts can now be used in any application that supports colorfonts.

CLIPART:
1. Write protect the disk.
2. Copy the clipart files from the drawer 'CLIPART' on the coverdisk to a spare disk or hard drive.
3. You can now load the clipart files into any Amiga program that can load black and white IFF pictures.


'Allo, Allo, 'Allo welcome to London.

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» messages vying for your attention that you need to attract the reader or viewers attention and do it quickly. A graphic illustration (for reasons too complex to go into here) is far more attractive and appealing to the eye than text and is often used to draw the reader into the page. A good collection of artwork with which you can illustrate your creation should therefore be a primary concern.

As it happens, on this month's Coverdisk 81 you'll find a collection of fonts and clipart to help you get started. These fonts can be used in programs such as *Scala, Deluxe Paint*, and many other pieces of software that support Colorfonts – check your user manual if you are unsure.

The fonts have various designs and masses of colour, and are suitable for everything from *Mutant Turtle* cartoons to DIY Karate videos.

The clipart files are monochrome, high resolution, IFF format and can be used by practically all Amiga DTP, graphics, video titling and word publishing applications.

The selection used on the Coverdisk includes images covering a variety of topics from cars, to tourist information, to Christmas cards!

A WORD

The fonts and clipart on the Coverdisk have been provided by EMC. One of the UK's leading suppliers of Amiga clipart and typefaces. In addition to their large range of Public Domain fonts, EMC also carry a wide range Compugraphic and Postscript Type 1 fonts and clipart.

Prices for EMC fonts start at £14 for a volume, each volume containing a number of disks.

A full catalogue of their fonts and clipart is available for £1, plus 25p postage and packaging. Tel: 0225 431 389.

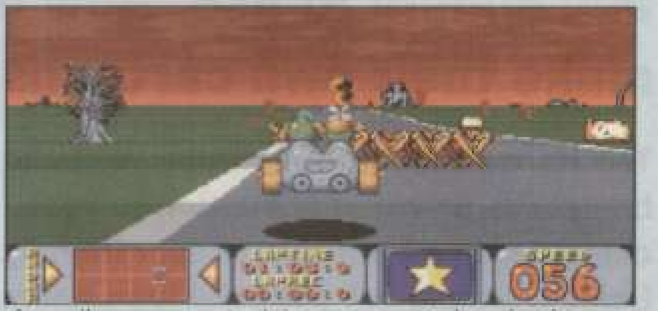
If you have any queries or further enquiries about these fonts ring EMC at the above number or write to them at EMC, 8 Edith Road, Clacton on Sea, Essex CO15 1JU.

82
AMIGA
BUMP 'N' BURN
BANSHEE

If someone was to ask you "Which magazine brings you the hottest coverdisks?" You would have to reply "Only CU AMIGA requires the use of asbestos gloves."

COVERDISK 82

BUMP 'N' BURN



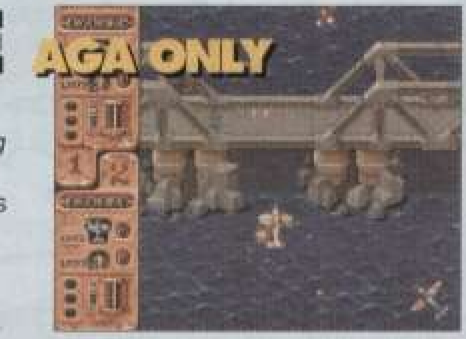
Even with all the racing games there have been on the Amiga, there has definitely been an unfilled opportunity for a two-player karting arcade game, not completely dissimilar to a certain Super Nintendo game featuring a plumber. Yes, after remaining so quiet for so long, Grandslam are about to kick the consoles out of the window with *Bump 'n' Burn*, a two player arcade racer with more dirty tricks and strange characters than an episode of The Bill.

You don't really need a plot, do you? Just do five laps of each course, going as fast as possible and trying to stay ahead of all the other cars. Naturally, there are all sorts of obstacles in your way, from barricades in the road, to fog, oil patches and beyond. It isn't all down, though, as there are power ups to collect along the way in the form of stars on the road. Run over these, and a panel will light up at the bottom of the screen to show you exactly what you've collected. It can be anything from a turbo charged engine to an oil dispensing tank to a cannon to knock other cars off the road. Once you've collected it, pulling down on the joystick activates it, but it only works for a short time, so don't abuse it.

We'll have a full review of *Bump 'n' Burn* in the next month or so, but in the meantime, this should be enough to keep you interested.

• • • • • • • • • • • • • • • • • • • •

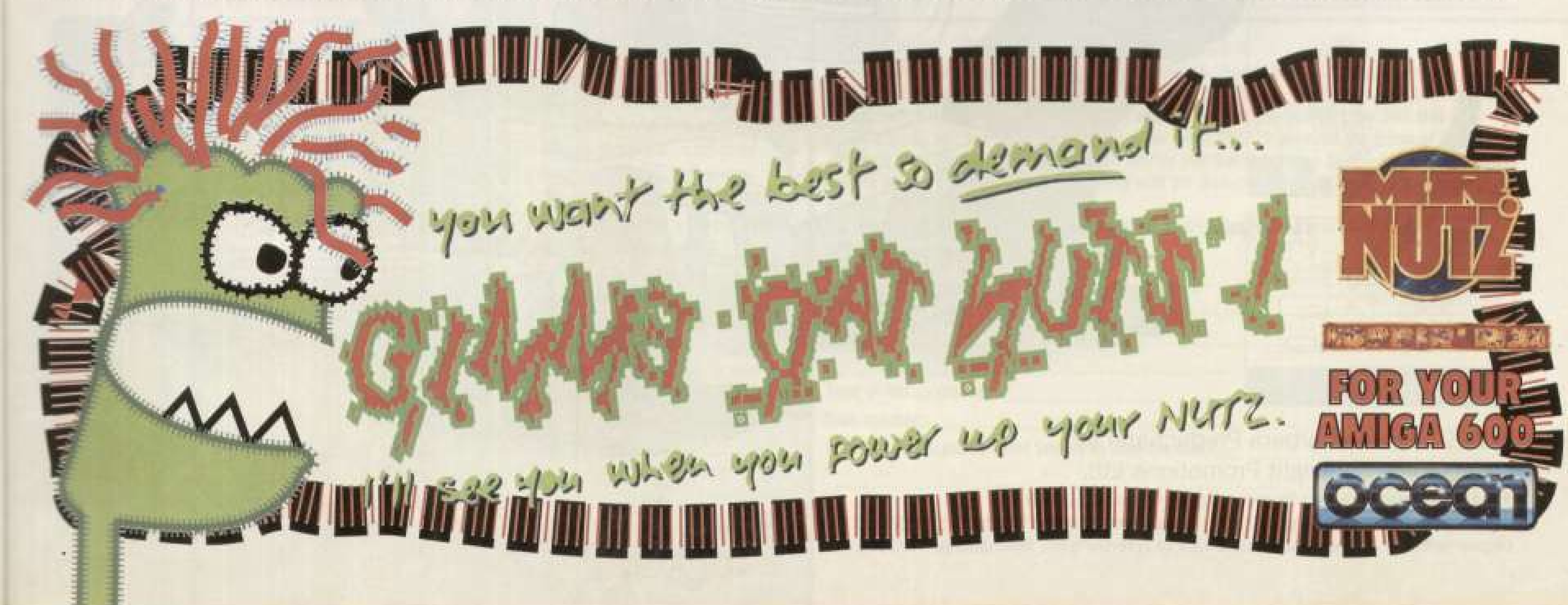
BANSHEE



Two of the greatest shoot em ups of all time had to be *Flying Shark* and its natural predecessor, *1942*. Both featured biplanes flying over war torn territories, and both featured mass destruction. This genre has been quiet for a long time, so it is with great thanks to Soren and Jacob, Core Design's Danish contingent, that we proudly bring you the AGA shoot em up of the year –*Banshee*.

Pick it up and start shooting. That's about all I can offer you in the way of instructions. You start at the bottom of a long vertically scrolling strip, and have to make your way to the very top, blasting everything in sight, including lighthouses, enemy soldiers, tanks, planes and boats. Most things take a few hits to destroy, and you've got it all against you, so you're not going to get very far for your first few goes. If you find things are too much to cope with, make your way to the top of the screen, where your plane will do a barrel roll which takes you back to the bottom of the screen while making you temporarily immune to enemy fire. You have a limited number of these moves – so use them sparingly.

As always with this kind of game, there are more than a few power-ups dotted about for you to collect. These drift down the screen and change every time you shoot them. Three-way fire, faster guns, a faster plane, more powerful bullets and an extra barrel roll are just some of the toys on offer. What can I say? Get stuck in!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At last! An animation package that is fun and simple to use. Now everyone can make their own cartoons.

The Hanna-Barbera Animation Workshop brings the power of animation to your computer in a form that is user friendly. Using a simple yet powerful Icon Animation System (IAS), anyone can quickly produce impressive animations just like the professionals.

Complete with Hanna-Barbera animations (The Flintstones, Scooby Doo, Yogi Bear & The Jetsons), and clip-art for you to include in your own artwork.

Video input capability that allows you to import hand drawn animations and still backgrounds by using a camcorder or video camera and a digitizer.*

Contains features that the professional animator couldn't do without such as onion-skinning for careful positioning of frames and an adjustable exposure sheet so that you can get the timing just right!

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* Requires camera and Rombo digitizer (not included).
Empire Software, The Spires, 677 High Road, North Finchley, London N12 0DA Tel: 081-343 9143
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empire
SOFTWARE

HOW TO LOAD YOUR CU AMIGA COVERDISKS

80
AMIGA
OCTAMED 4
The essential upgrade
PLUS OVER 300K OF MUSIC SAMPLES!

LOADING DISK 80 – IT'S OCTAMED TIME!

In order to give you both the full *OctaMED 4* program and over 300K of top-notch sound samples, the *OctaMED* disk has been compressed. Before you can load it, you need to decompress it onto a new disk. You'll then end up with two disks. Your original coverdisk will contain the samples, while your new disk will house the *OctaMED* program. Before you go any further, find yourself a spare disk, and write-enable it by closing up the little tab in the corner. This needn't be formatted.

1. WRITE PROTECT YOUR DISK!
2. Insert Disk 80 in the internal drive and turn on your Amiga.
3. When the Workbench screen has loaded, double click the CU #80 disk icon.
4. Double click the *OctaMED 4* icon.
5. After a few seconds, you'll be asked to insert your blank disk and press return, so do as it says.
6. Replace Disk 80 in the internal drive when asked to do so.
7. To load the *OctaMED* program, insert the newly-prepared disk and reset the Amiga.
8. Double click the *OctaMED* disk icon.
9. Double click the *OctaMED* program icon.

DISK VIRUSES

We try to ensure that all our coverdisks are completely free of viruses. We always have the most advanced virus checkers available when the disk is compiled and every program goes through rigorous testing. However, we can not accept any responsibility for possible damage incurred by viruses which have escaped our attention.

81
AMIGA
BUBBLE & SQUEAK
PLUS: Fonts and clipart Special!
AGA

HOW TO LOAD DISK 81 LOADING THE GAME!

Can't wait to get your hands on this brilliant demo? Well, relax and follow these instructions to the letter to ensure that nothing will spoil your enjoyment of the game. To play *Bubble and Squeek* on disk 81 simply turn off your Amiga, insert this disk into the internal disk drive and turn the computer back on.

1.WRITE PROTECT YOUR DISK!
Make sure the tab on the coverdisk is in the open position before you do anything.

2. Because we wanted to fit so much on this disk we've had to archive the *Bubble and Squeek* game. This means you can't play it directly from the cover disk. Before you use it, get a spare floppy disk at the ready. Everything on this disk will be completely overwritten so check there isn't any vital information on it first.

3. Insert the Coverdisk 81 into the first internal drive and switch on your Amiga.

4. Double click on the CU #81 disk icon, then double click on the Bubble icon (where it says double click here).

5. Follow the on-screen instructions, inserting your spare disk when asked. The spare disk must be write enabled (the tab closed).

6. Once finished, insert the spare disk and reset your Amiga. The game can now be played directly from the spare disk.

TO LOAD THE FONTS AND CLIPART ON COVERDISK 81

To load the fonts and clipart on Coverdisk 81 simply boot your Amiga as normal, using your Workbench disk and copy the Colorfonts from the Coverdisk to your Workbench Fonts drawer by following these instructions.

1. WRITE PROTECT YOUR DISK!
Make sure the tab on the coverdisk is in the open position before you do anything.

2. Turn on your Amiga with your Workbench disk in the internal drive.

3. Once Workbench is loaded, double-click the Workbench disk icon, followed by the Shell icon.

4. Type in the following and press return:

```
MAKEDIR FONTS/COLOURFONT
```

This creates a second drawer within the fonts drawer for your new colour fonts.

5. Next, type the following and press return:

```
COPY "CU #81:fonts" /all TO Workbench1.3:fonts/colourfonts/
```

Note: You should change the 'Workbench 1.3' text in the above to the name of your own Workbench disk.

6. Now follow the instructions on screen, changing disks as requested. This will copy the fonts from the Coverdisk to your Workbench disk. Depending on how much space you have on your Workbench disk you may not be able to install all your Coverdisk fonts on the Workbench disk. You will still be able to use them, but you will have to load them from a disk other than the Workbench disk.

7. To use these fonts in an application – *Scala* or *DPaint* for example – simply load the application, and follow that application's instructions for loading fonts. Now, instead of loading fonts from the normal 'FONTS' drawer, change the path to the 'COLORFONTS' drawer.

If you did not install all of the fonts on your Workbench disk, simply insert the disk with them on into the floppy disk drive and load them from that disk instead.

You will now be able to load and use your new Colorfonts. Please note that these fonts are intended for headlines and titles only and will not contain all the characters available on the keyboard for this reason.

The clipart on this disk can be loaded with practically any Amiga graphics or DTP program. To load the clipart simply insert the Coverdisk and follow your program's instructions for loading pictures. The pictures are in the drawer called 'CLIPART'.

If you have any queries or problems with these brilliant fonts, please call EM Compugraphic on 0255 431389.

82
AMIGA
BUMP 'N' BURN
BANSHEE
AGA

HOW TO LOAD COVERDISK 82

Couldn't be easier. Just switch off your machine, insert the disk, and then switch the machine on. Give it a few seconds, and the menu screen will appear. Selecting F1 or F2 will load *Bump 'n' Burn* or *Banshee* respectively, and A1200 owners with hard drives will be able to install *Banshee* with the third icon. What could possibly be easier?

IF YOUR DISK WON'T LOAD

If your coverdisk doesn't seem to work as it should, then follow this simple guideline. Firstly, remove all unnecessary peripherals, such as printers, modems etc. Follow the instructions on these pages to the letter, and if after that you find that the disk still doesn't work, call the DiskXpress helpline on: 0451 860770 between the hours of 3pm and 5pm from Monday to Friday. If they advise you that the disk is faulty, fill in your details below, and send this form, along with the disk and a 28p stamped self-addressed envelope to the following address:

CU AMIGA disk returns, DiskXpress, Unit 3, Old Coalyard Farm, Northleach,
Gloucestershire GL54 3EP.

Name: ________________

Address: ________________

Type of Amiga owned: ________________

Disk number: ________________

Exactly what happens when you try to load the disk? ________________

CU NEWS

CANNY COMMODORE SPINS OUT THEIR EASTER SURPRISE

Commodore UK have exclusively revealed to CU AMIGA that they are readying an A1200 CD-ROM drive and a new A4000 tower system.

32bit
AMIGA CD32

Commodore UK boss David Pleasance told CU AMIGA that they have the CD-ROM drive ready to ship and that it would be formally announced at the Spring European Computer Trade Show (April 10-13, 1994). He said that they are endeavouring to achieve a price point that is both suitable and competitive, for the UK. Industry insiders speculate that a price point of £199 is likely.

Mr. Pleasance attributed the delays in announcing the drive to technical difficulties which prevented them from supporting their customers as they would like. A1200 owners want a CD-ROM drive which gives them compatibility with the advanced CD32 games now appearing. But, whilst the new CD-ROM drive will give them this ability, it will not have the FMV module upgrade facility users may need in the future.

Commodore feel that this omission of the FMV facility places them in a no win situation: either they continue delaying in the hope that their West Chester based R&D teams will find a way of incorporating an FMV upgrade, or ship the drive without this ability. Either way, they will be criticised – as it is other magazines have already attacked them for not shipping the drive. In fact, one other well known Amiga magazine emphatically stated only last month that Commodore would not ship the CD-ROM drive at all!

David Pleasance and Commodore have thus felt caught in the middle. Their decision, and one we back wholeheartedly, is to launch a CD-ROM drive now, giving A1200 owners immediate compatibility with the CD32, whilst continuing to try to find a solution to the FMV upgrade problem. Whilst FMV is a key feature and allows the CD32 to play the new generation of Video CDs (see reviews on page 53), titles which only work on FMV-equipped Amigas will not appear for some time. It's doubtful that FMV-only titles will predominate for at least a year, if at all.

A more likely development is CD-based games which take advantage of an FMV module if fitted, but still work on normal Amiga CD systems. In this situation Commodore's move is both clever and welcome. By giving A1200 owners a CD-ROM drive they support loyal Amiga users, and give Amiga software developers a bigger user base for which to write. If even half the UKs A1200 owners upgraded, the Amiga CD games platform would be the biggest in the UK! Such a move thus ensures the future of the Amiga as a CD games platform – in the face of growing competition from Sega, 3DO and Phillips. Watch out for more news and, if we can get hold of one at the ECTS, a review or first impressions next month.

VIRGIN ON RIDICULOUSLY CHEAP!

The Hit Squad are currently gearing up for one of the biggest budget assaults the Amiga has ever seen by snapping up the rights to no less than twelve of Virgin's top games. Ready to be released within the next month, the full run down is: *Cannon Fodder, Dune, Dune 2, Jimmy White's Whirlwind Snooker, Archer Maclean's Pool, Realms* (that old cookie), *Legend Of Kyrandia, Supremacy , KGB, Reach For The Skies, Shuttle* and the amazing *Lure Of The Temptress* from Revolution Software. Get your tenners ready! Contact Ocean on 061 832 6633.

SYSTEM 3 RETURN TO AMIGA

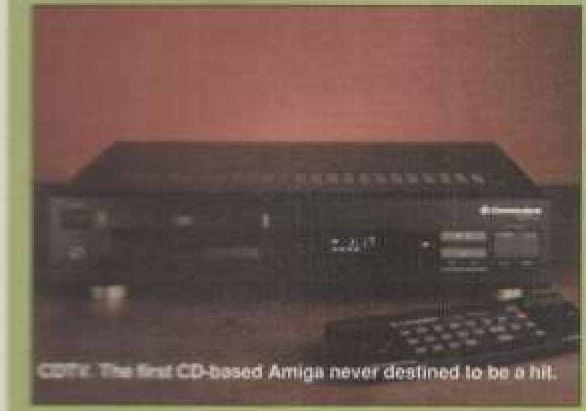
Any thought that support for the Amiga may be falling off has been dispelled by the announcement from Nintendo game publishers System 3 that they are moving back to the Amiga. System 3 moved away from the Amiga just over a year ago, when they and others thought both sales and support for the format was falling off.

Now with the console market becoming increasingly competitive, and the boom of Christmas 1992-93 has fallen into decline, the Amiga is looking stronger than ever, and developers and publishers are starting to return. System 3 is among the many publishers CU Amiga know of who will be announcing Amiga support for over the coming months. Their first new Amiga game will be *Putty Squad*, which should be launched during the summer.

***Super Putty, Putty Squads'* forerunner was a smash on the SNES.**

For more information contact System 3 on 081-864 8212.

THE AMIGA CD PAST AND PRESENT


CDTV: The first CD-based Amiga never destined to be a hit.

A570:the first CD upgrade.

CD-ROM drives on the Amiga have a long and chequered history, ranging from pretty dismal failures to massive hits.

The first Amiga CD based product was the doomed CDTV. This was essentially a CD32 of its day: take an Amiga, remove the keyboard and disk drive and throw in a CD-ROM drive for good measure. Unfortunately, a confused marketing plan, uncompetitive price and under specified hardware ensured the CDTV never gained the popularity it deserved. Now the CDTV is practically forgotten, although if you shop around you can still find the odd one hovering around.

Following on from the CDTV was the imaginatively named A570. This was a custom CD-ROM drive for A500 Plus systems, plugging into the side of the A500. Despite a shaky start it was a reasonable success, although only after the price had come down to under £100.

The last CD development from Commodore was unveiled late last year: the CD32. This was similar in concept to the earlier CDTV, but had several major advantages. Whereas the CDTV was only equal, if not inferior, to its console competitors and latterly the Philips CD-i system, Commodore's latest development is technically superior to anything Sega and Nintendo have, whilst also being very competitive on price. The result is that the CD32 is now rapidly gaining acceptance as one of the most popular games consoles available and has almost certainly established Commodore as a major player in the CD-ROM market of the future.

AMIGA TOWERS AHEAD!

Commodore also revealed at ECTS their new A4000 tower system - the A4000T. The new system will feature an 68040 processor running at 25MHz, 2Mb of CHIP RAM, 4Mb of FAST RAM, five Zorrow II/III expansion slots, two video slots, and four PC/AT slots. The new Amiga will also have both IDE and 16-bit SCSI-2 hard drive interfaces. There will also be five externally accessible drive bays for holding hard drives, tape streamers and other SCSI devices.

CU AMIGA expects both it and the A1200 CD-ROM to be with dealers by late summer.

FASTER FAX MODEM

First Computer Centre has announced details of a new, ultra fast, modem for Amiga users. The SupraFaxModem 288 can operate at up to 28,800 bps, can upgrade its ROM (through the use of FlashROM) and is based around the Rockwell V.FC (V. Fast Class) chipset.

The Supra modem, with a price of £284 including VAT, is considerably faster than other modems in this price band, and is faster than most other modems currently available. However, until other modem users also start using modems of this speed, there will not be a lot of opportunities to take advantage of the speed increase.

The modem itself can achieve a data transfer rate of 115,200Kb. However, the internal circuitry of the Amiga can only transfer data reliably at speeds of up to 57.6Kb, and even this is only possible on the Amiga 1200 and other Amigas with either an accelerated 68000 or faster processor.

The SupraFAXModem 288 will be available from early April. For further information contact First Computer Centre on 0532 319444.

SupraFAXModem V.32bis
144
POWER

The Supra FAX Modem 14,400 bps – the latest version for Amiga will run at twice the speed.

GVP ACCELERATOR GETS COMPETITION

Does the GVP A1230-II have some new tough competition?

A new accelerator has been launched that directly competes with GVP's, CU AMIGA Top Rated, A1230-II. The Blizzard A1230-II Turbo Board offers similar specification to GVP's A1230-II and like GVP's board it is available in a variety of configurations, including 40 or 50MHz processor speed, with or without MMU and maths co-processor.

Similar to GVP's card it has two SIMM sockets, allowing RAM to be upgraded to a quoted maximum of 64Mb (although this depends upon the availability of 32Mb SIMMs which are, as yet not available). Unlike GVP's expansion however, the Blizzard board uses industry standard SIMMs, rather than priority (read expensive) modules. The Blizzard also has a built-in SCSI-II port, and an additional feature connector which the company claim will be used for future expansions. Although no expansions were available, Advanced Systems and Software plan to introduce a variety of boards, possibly including MPEG decoders and CD32 compatibility modules. For more information call Gordon Harwood Computers on 0773 836781.

BLIZZARD

A WALK IN THE PARK

We've talked about it for months, and finally they've admitted a date. *Theme Park* from Bullfrog, the business simulator come roller-coaster ride is almost ready to be unleashed onto the public. Run it down and let the thugs in, or keep it nice and safe and only fit for old people. The choice is completely up to you, and all AGA owners will be able to experience the thrill of running your own Theme Park from June 24th. Non AGA owners will have to wait a little longer – the end of July to be exact. Before you all start complaining and threatening violence, the reason for the delay is that Bullfrog have only just committed to a non-AGA version. So you can count yourselves lucky that you're even getting it at all. For more information contact Bullfrog on 0483 579 399.

»

SUSPECT SNAPS?

Got any suspect photographs you're too shy to get developed in Boots? You know the type – the holiday snaps of you looking like a beached whale on the beach in Malaga. If you have then Blittersoft have just the product for you! The Milton Keynes company have been appointed as UK distributor for PhotoWorx, a software title allowing the Amiga to view and manipulate Kodak PhotoCD discs.

PhotoCD is a Kodak, them of the 35mm film fame, developed system that allows you to have your photographs stored on a compact disc rather than developed normally.

Using a compatible hardware player, these photos can then be seen and manipulated on your TV or monitor. Blittersoft claim that PhotoWorx is the first Kodak licensed PhotoCD software for the Amiga.

The software, written by Corporate Media of Germany, allows any Amiga with an compatible XA-capable CD-ROM drive to act as a player. With PhotoWorx you can load and display your photographs stored on a PhotoCD disc, save them out as an IFF, magnify them, and perform other operations. The software supports most 24-bit cards including OpalVision, Retina, Picasso and Piccollo.

PhotoWorx is priced at £89.95 and is available from Blittersoft on 0908 220196.

DTP STREAMS AHEAD

The on-going duel between *PageStream* and *Pro Page* for the DTP crown hots up next month with the launch of *PageStream* 3.

PageStream 3 will be the fourth major Amiga application upgrade this year, following on from *Wordworth, Ad Pro*, and *Final Writer*.

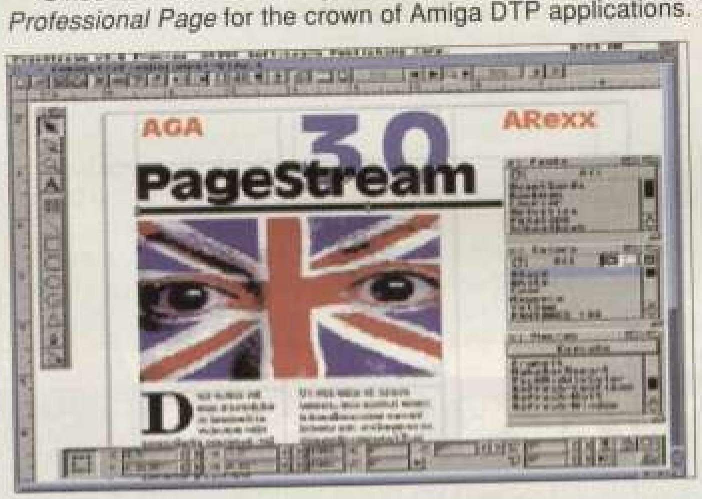
The new version will offer numerous new features in practically every area of operation. For text entry and formatting it now has enhanced paragraph formatting, auto kerning and hyphenation, better tab setting control and text style configurations. Long documents are also better catered for with double master page support.

Object handling has been dramatically improved with all common object data (coordinates, rotation angles, width/height etc) constantly on display, whilst Postscript EPS imports can be broken down into a structured drawing and then into individual component shapes and paths.

Colours in PageStream have also been enhanced. In addition to it's normal spot colour and process colour with RGB, HSV and CMYK colour the Pantone colour system has been licensed. Another major improvement is that *PageStream 3* adds *ARexx* compatibility, and comes with an extensive ARexx command set.

One final facility, and one likely to ruffle some feathers, is that *PageStream 3* will translate documents from its rival, *Professional Page*, letting you import *ProPage* documents!

Since its launch several years ago *PageStream* has been in a near constant battle with *Professional Page* for the crown of Amiga DTP applications. Each new version being outdone by an update from the rival. However recent news emanating from GoldDisk, makers of the rival *ProPage*, suggest that *ProPage* development may now slow up as GoldDisk scale down their Amiga development commitment.



The UK price has yet to be confirmed, but it is likely to be between £300 and £400. An exclusive preview of *PageStream 3* will be in next month's CU AMIGA. *PageStream 3* will be available from Silica on 081-309 1111 in early June.

WORDWORTH BUGS?

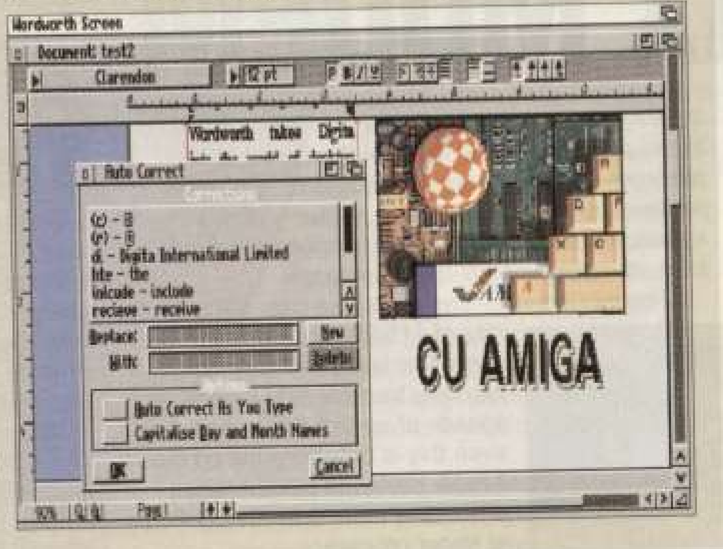
The most popular word processor on the Amiga was recently upgraded. The new version, Wordworth 3, was launched at a lavish do in London, at Silica's branch in Tottenham Court Road.

Since then however, numerous reports have circulated regarding the reliability of this release. Bugs include text disappearing when the line spacing is changed, crashing when ASCII files are imported, and debug windows appearing when printing.

Digita, the authors, were unaware of the bugs when contacted, but issued a statement stating that a new version (3.0a) was in development and would be available on April 12th. This statement said that 'This technical update corrects compatibility problems, improves operating speed and provides a general 'tune-up' to Wordworth 3.' This update will be available free to all registered Wordworth 3.0 users.

For a full review of Wordworth 3 turn to page 106.

Digita are on 0395 270273.



(c) – ©
(r) – ®
di – Digita International Limited
hte – the
inlcude – include
recieve – receive

DINO DISC-A-SAURUS

Optonica are about to release the second in their series of Amiga CD multimedia titles. The *Insight: Dinosaurs* disc will work on all Amiga CD-ROM systems (A570, CDTV, and the CD32) to provide a wealth of information on, you guessed it, Dinosaurs. The disc, containing nearly 600Mb of data, covers almost every subject of interest to Dinosaur enthusiasts and has been produced in conjunction with the British National History Museum. Included is information on Dinosaur attack and defence moves, diets and behaviour, the life of the Dinosaurs and fossil hunting. Also on the disc are a number of educational games and programs. *Insight: Dinosaurs* will be available in May from Optonica for £39.95. Optonica are on 0455 558282.

DIGITAL MULTIMEDIA LTD.

" Due to a technical hitch here at CU Amiga,We published the wrong ad for Digital Multimedias' X Cad .As a gesture of good faith to the Amiga community, Digital Multimedia have extended the special promotion pricing for X Cad until the 14th of May 1994 - X Cad 2000 reduced from £129.00 to £79.00 and X Cad 3000 reduced from £329.00 to £249.00 ex VAT and delivery "

Please See Our Advertiament On Page 49

Manchester UNITED

Manchester United won the first Premier League competition and look set to win the second. Whilst the Manchester United team have practised their skills on the training ground, Krisalis' top team of programmers have toiled to perfect a football simulation which will give the player a more realistic reproduction of the football season together with its injuries, suspensions, tactics and careful foreward planning that could dictate the success or failure of your chosen team before you have even picked up your joystick and pressed a fire button in anger.

• Tacti-Grid™. An advanced form of strategic control allowing complex formation design and individual player match tactics. • Up to 4 human players can take control of any Premier League, Endsleigh League or GM Conference club. • Play full and accurate seasons which include league, F.A. Cup, League Cup and Charity Shield, relegation, promotion, play-off and friendly matches. Alternatively create custom league and cup competitions, or play one-off matches. • Varying injury types and severities, yellow and red cards, disciplinary points and variable suspensions. • Selectable home, away or third strip. • A host of statistic charts and graphs including all league tables, fixture lists, cup draws, team and divisional top scorers, manager and team performance, injury type and duration and disciplinary records. • Over 2500 players all with accurate skin tones and hair colours and 10 different varying skill abilities. • Arcade section includes ultra-quick gameplay, passing, shooting, heading, diving headers, deflections, variable pitch conditions, advanced computer player intelligence, extra time, injury time and penalty shoot-outs. • Latest Premier League rules including squad numbering, substitute goalkeepers and pass back rule. • Advanced replay mode with slow motion, freeze frame, and reverse camera angle features.

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SUPER SMOOTH ANIMATION SYSTEM FOR THE AMIGA©

CLARISSA

3.0 PROFESSIONAL

clariSSA offers a means of converting Standard IFF or Anim5 animations into SSA format to which you have become accustomed with Adorage. And that is not all.

clariSSA offers a further 40% improvement (compared with Adorage) with respect to the smooth, natural playback of animations. This means that you can even improve the quality of an Adorage animation, so if an animation starts bucking in Adorage, simply import it into clariSSA for smooth, non-bucking playback. Apart from this, you can combine graphic formats and palettes independent of the animation in this program, as a different palette can be used for each frame !!

clariSSA also offers a lot of useful cutting functions which allow you to inject the animations into videos and presentations. It goes without saying that you can also combine animations produced by different programs to produce a single one - all in all an incredible number of facilities for versatile animation.

Once the benefits of SSA were recognised, the wait for a program to convert normal Amiga animations began - and with the introduction of clariSSA, all can be revealed.

clariSSA is a fully-fledged animation editing system, which just happens to use the SSA system to display the finished work.

Either existing Anim5 files, or a collection of individual frames, may be loaded and automatically converted to SSA.

Once in memory, the animation can be processed in all sorts of interesting ways, some of which would be simply impossible with Anim5. **Order Code SW0102**

CU AMIGA
TOP RATED

"I came to clariSSA sceptical, and came away convinced I had found a useful animation display tool...

... all Amiga animators should consider this as an essential buy."

"Its called Super Smooth Animation, and so it is."

OVERALL 90%

CU AMIGA FEB 94

System Requirements: A500 owners and above

£79.95

BVG

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MONITOR MADNESS

Two of the Amiga's largest dealers have taken on a new monitor to fill the gap left by the absence of the Commodore 1942 and 1084S monitors. Silica and Indi are now both supplying models from Microvitec.

The Microvitec 1438 is a 14" colour monitor compatible with all Amiga resolutions (including AA modes). Unfortunately the monitor has no internal speakers of its own, but both companies are supplying it with external, detachable, speakers.

Strangely, Silica are pricing it at £20 less than Indi, Silica's price being £299 whilst Indi are charging £319.

For more information contact Silica on 081-309 1111 and Indi on 0543 419999.

ADORAGE WIPES THE FLOOR

Thanks to the popularity of last month's coverdisk video offer (CU AMIGA April 1994), Burgess Video Group have decided to extend their special free offer (you only pay P&P) for at least another month.

The 60 minute video provides instructions and a quick start operating guide to this super video effects program.

A useful addition for Version 2 AGA users, it should not be missed! Contact Burgess Video on 0874 611633 for more information.

GET THE FAX OUT

First Computer Centre and Gordon Harwood Computing are supplying GP Software's Amiga fax software, GPFax, with Supra modems.

The fax software from GP Software allows the Amiga to send and receive faxes using any Group 3, Class 1 or Class 2 facsimile modem (which Supra supply). Using GPFax you can send any text file or IFF picture or combination as a fax, the software also comes with a driver that allows you to create and send faxes from other Amiga applications.

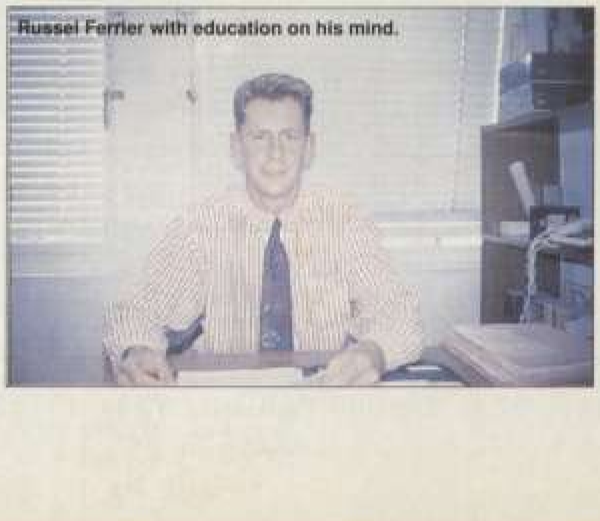
The software is also available separately from both companies, priced at £49.95 including VAT. Gordon Harwood Computing are on 0773 836781, First Computer Centre are on 0532 319444.

GAME DESIGNERS GET FIRST DEGREE

Fancy a BA (Bachelor of Arts) or even an MA (Master of Arts) in the Design and Production of Interactive Games? Well now you can have one. Middlesex University plan to offer a one year MA course starting this September, followed up next year by a three year BA course.

The courses will involve considerable co-operation with major software publishers throughout, and has been set up under the auspices of a group called the Education Initiative, founded by ex-Domark development manager Russell Ferrier. The software houses will supply hardware and work experience opportunities, and the course will cover both existant and developing technologies.

The whole idea is to develop new talent: "The games industry was in danger of becoming stale, the only solution is to seek out new blood and bring it in", according to Russell. Because this degree is a world first, Education Initiative hope that it will help establish the UK as a leading centre for leisure software development. So do we. For more information on the course contact Domark on 081 780 2222.



Russel Ferrier with education on his mind.

I WANNA BE LIKE YOU-00-00

What's that? Even more Virgin news? This is Virgin on the... oh no, we've done that one already. Anyway, here's the deal. Virgin have announced that they will release Amiga conversions of the two SNES smash hits *Aladdin* and *The Jungle Book* towards the end of this year! Hooray!! Featuring the sort of animation and graphics that made Disney the company they are today, both platformers are widely regarded as two of the best available for consoles, and will doubtlessly repeat the same feat on the good old A500 and A1200. Expect a full preview very soon. And Tigger too. Contact Virgin on 081 960 2255 for more information.

Conspicuous by his absence from these pages last month, Commodore MD David Pleasance returns from a well deserved holiday, tanned and ready for action.

Regular readers of this column (I know you're out there) will have noticed that most of the chat has been about our mass market machines – namely the Amiga A1200 and Amiga CD32.

There's been a lot to say. But in the midst of so much activity: launching bundles, recruiting new retail partners, engineering full motion video capability we're still selling Amiga 4000s at an impressive rate.

The 4000 range has been an unqualified success since we launched it back in September 1992. We even ran out of stock for a spell in the middle of last year. But ever since I took the hot seat at Commodore I've been convinced that the Amiga 4000 can go even further. Now we're set to make that happen with an upgraded range and a new concept called ACE.

Over the next month or so we're planning to launch up to nine ACE centres (that stands for Amiga Centres of Excellence). Each one is designed to provide expert advice and service to makers of business solutions in the worlds of graphics, marketing animation, music etc. The first, in north Wales, has already opened.

Readers of CU AMIGA won't need to be persuaded of the Amiga custom chips' ability in these areas. Some developers might. And that's the point of ACE. Say, at ECTS (European Computer Trade Show 10-12 April), we give demos to 20 multimedia developers. Following the show we can direct them to ACE where they will get expert advice, as well as full details of pricing and peripherals. In the end they can walk away with a package tailored to their needs.

As a necessary addition to the ACE concept we're also introducing a Commodore Seal Of Approval badge to be awarded to peripheral manufacturers who come up to scratch. As I write we're finalising the trademark registration for the seal. In due course I'm sure it will benefit the whole Amiga community.

You may well ask how the involvement of professional developers can help you, the domestic enthusiast. Well, I believe that the adoption of the Amiga by creative technology users can only lead to more software availability and increased public awareness of the brand. Good long term news for all of us.

There are already plenty of takers. Amigas are being used in The London Transport Museum for point-of-information kiosks and by Dave Stewart in his recording studio to name but two.

In my next column I hope to update you on he progress of ACE. For now though I'll have to sign off with a couple of statistics. As I write, 44 per cent of all CD software sales and 10 out of the top 20 CD games in the official chart are Amiga CD32. As the song goes 'Things Can Only Get Better'.

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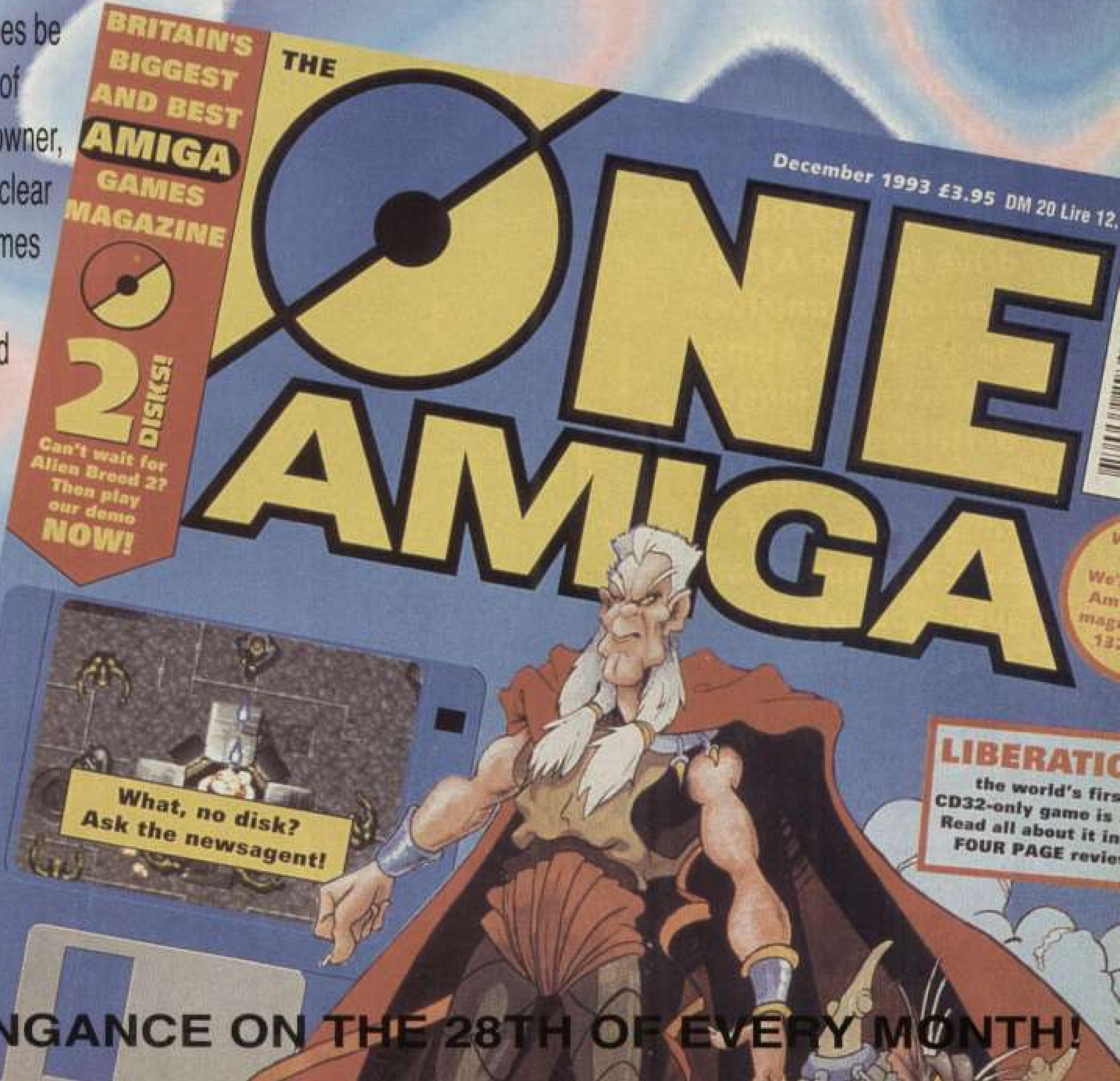
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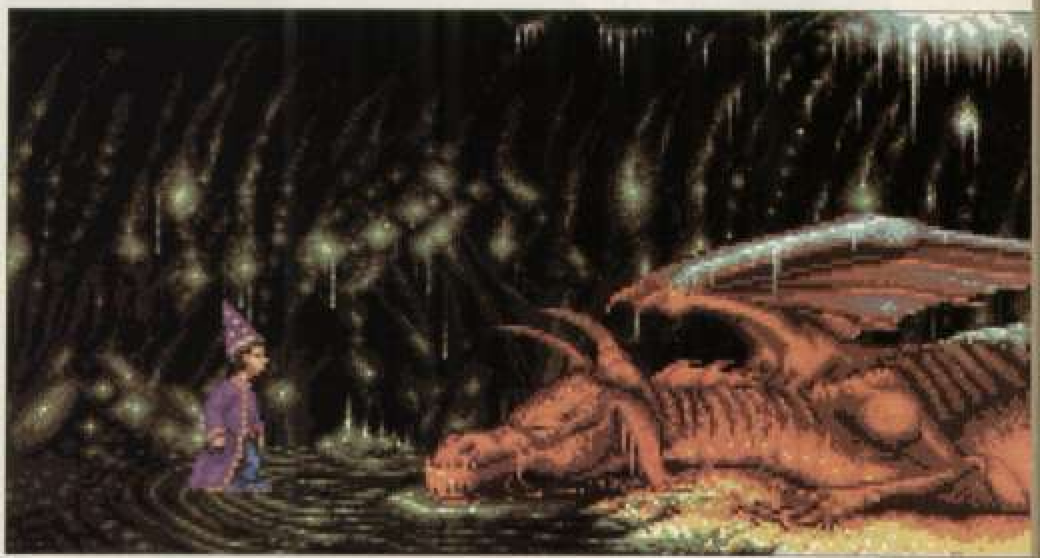
Stars on CD

The CD games market is exploding faster than anyone ever expected. Thanks to the experience software houses have gained on PC CD-ROM systems, the Amiga A1200 ports for the CD32 are already beginning to die out, helped along by the announcement that Commodore are to finally release a CD-ROM drive for the A1200 (see our exclusive news story), being replaced by bigger, better games. Games that use the 650Mb available for more than just a couple of music tracks.

One of the biggest moves in the PC market was the step over of film stars to become CD game stars. Recently in the USA, celebrities (and pseudo celebrities) have started to appear in games, finally bridging the gap between the film and music world and that of computer games. Now the CD32 is stepping in on the act with *Simon The Sorcerer* from Adventuresoft. Starring (on lead vocals) Chris Barrie of *The Brittas Empire* and *Red Dwarf*, the game is the first of its kind to be done in Europe, and CU AMIGA were there to capture the whole thing. Read on to find out how it went, and to discover just how the CD market is opening up on the other side of the pond.

The Simon Empire

It was only a matter of time before the film and TV industries started to step in on the CD-ROM games market. Alan Dykes was there to record the moment.



On March 2nd, 1994 at approximately 10:30 am Chris Barrie, star of TV's *Red Dwarf* and *The Brittas Empire*, spoke the immortal words "It's a rather well-made catapult, if I say so myself." That line might not mean much to you at the moment, but it is the first step towards a new kind of computer game – CD-ROM titles featuring well-known TV and film celebrities. It's already happening in the US, where everyone from Donald Pleasance to Deborah Harry has appeared in computer games. Chris Barrie is starring in the first UK produced game of its kind, the brilliant *Simon The Sorcerer* by Adventuresoft, as exclusively previewed last month in CU AMIGA.

SIMPLE SIMON

If you've played Simon, you'll know it's a graphic adventure along the lines of *Monkey Island*, only with far more humour and stranger characters. Dreamt up by Simon Woodroffe, it's a tale of romance and adventure in a faraway land, with hormonally-imbalanced teenagers, bureaucratic dwarves, wizards with unconvincing Devon accents and a dragon with a cold. The key to the game is conversation, with all the lines shown as text above the sprites, and it's the charm that comes from the conversation that has made the game a smash hit on floppy formats. The move to CD has seen all the lines being spoken by actors such as Chris Barrie and Roger Blake, long time *Spitting Image* voice expert. With some clever voice direction, a few vocal effects and a lot of imagination, *Simon* is now looking to be a smash hit on CD32.

No-one is more excited about the advent of CD than Adventuresoft's Mike Woodroffe. We asked him why.

"Two reasons. One is that the market is obviously moving towards CD at a great pace, and the other is the advantages the CD media gives us are very interesting,." said Mike with a wry smile.

"Not only from a quality of product point of view, but also a kick the pirates in the crotch point of view. We have done some figures already on product, and there are several CD32 products that have sold in the 20, 000 unit mark, and *Microcosm* was released last week and did 14,000 units on day one.

"Now, if you look at the number of units of CD titles being sold, and compare that with the number of machines in the market, you'll find that a very high percentage of machine owners are buying games. Then look at the Amiga, and see the percentage that you sell against the amount of machines in the market, and you can only come out with two conclusions. Either only a very low percentage of Amiga owners play games, or a high percentage of Amiga owners play from pirated copies. You can draw your own conclusions. The CD media stops most of that. It'll never stop the commercial pirate – the man who wants to counterfeit your product, but because of the economics involved in copying a CD product, it'll cut out an awful lot of it.

"The media is a lot better for us on the profit side of things too, as well as creating better games. We can put a lot more into a game, such as the large amounts of audio, we can put a soundtrack, graphics – we

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Director, Patrick Kelly, (second from left) takes Max and Gerald through their paces. Spot the 300 page script.

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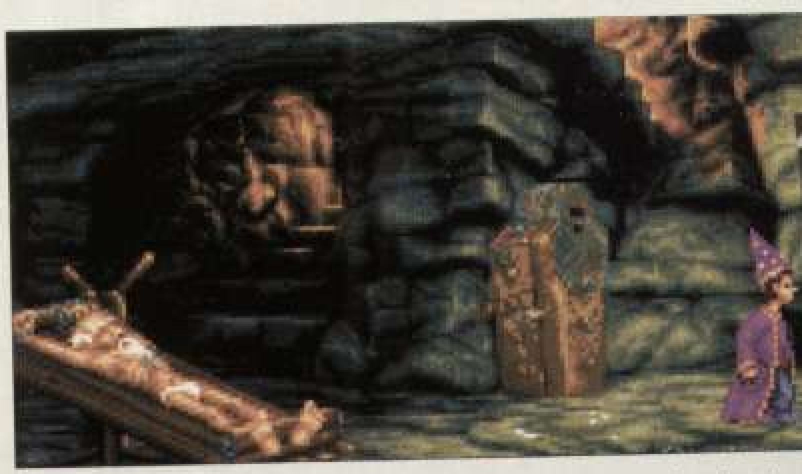

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Right:Ten hours in and no sign of stress at all.

can fit huge amounts onto the CD. My personal belief is that audio is the thing to use it for. The CD doesn't make the machine itself any more capable. It will only display the same amount of pixels on the screen, it will only display the same amount of colours, the animation won't move any faster as it doesn't improve the speed of the processor, but what it does give you is an enormous amount of storage space,and the one thing that really takes up space is digitised audio. So by using that space on the CD to hold and then playback the compact disc sound, it makes an enormous difference to the end user, as everyone will see when they play *Simon CD.*"

MET A PIE MAN

So how do you approach something like this?

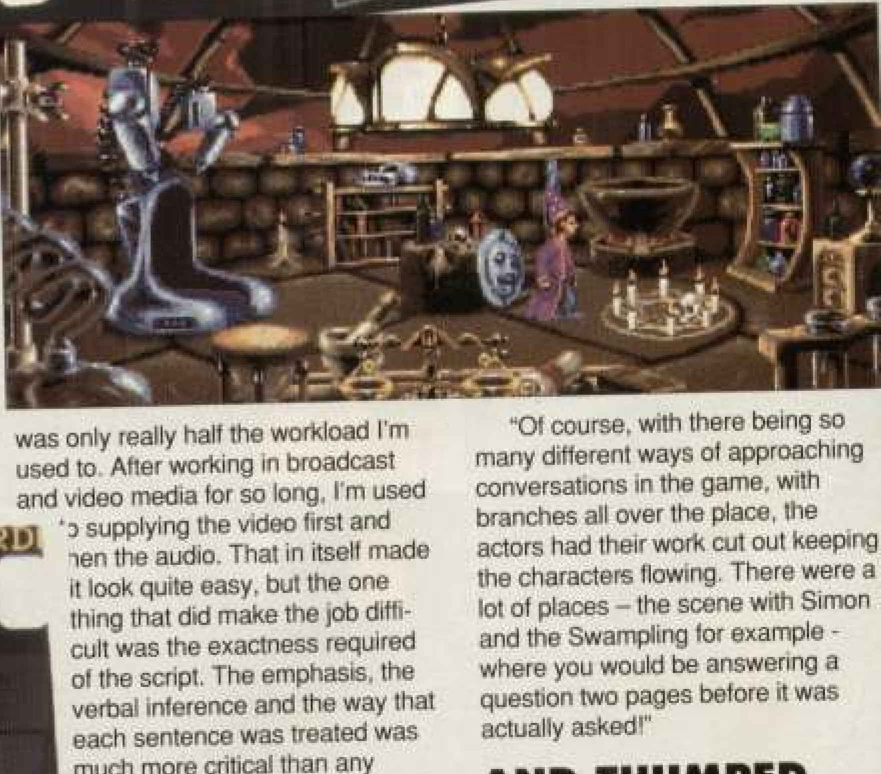
"We'd looked at other products that had used the technology before. The one we really examined was *Day Of The Tentacle*, and we felt that the acting on that was very poor, and that we could do a better job. It was quite by chance that we found K&A Productions." (A CD-ROM audio/video production team composed of director Patrick Kelly and CU AMIGA's very own enterprising Tony Dillon)

Putting all of this audio on CD certainly makes the game more entertaining, especially for you — doing voices for some of *Simon the Sorcerer*'s characters must be fun, no? "Of the scenes we've got together, the real shining hours have to be the woodworm – the woodworm are a riot. It really works well – it's a hoot!" says Mike.

Thirteen hours of recording and countless late nights later and the audio is completed: a 300 page script pulled onto eight hours of audio! A daunting task for all involved in the production.

"It was a big job, but in a way it was only really half the workload I'm used to. After working in broadcast and video media for so long, I'm used to supplying the video first and then the audio. That in itself made it look quite easy, but the one thing that did make the job difficult was the exactness required of the script. The emphasis, the verbal inference and the way that each sentence was treated was much more critical than any visual and audio production would have been. There wasn't a set up for what the people were doing; there wasn't a facial expression, there wasn't a body action that the actors could give. That made it interesting, not unlike the work I've done in dubbing foreign language versions of shows I've done." said Patrick Kelly of K&A.

"In a way it was very much like producing a radio play," adds Tony 'Corporate' Dillon.



"Of course, with there being so many different ways of approaching conversations in the game, with branches all over the place, the actors had their work cut out keeping the characters flowing. There were a lot of places – the scene with Simon and the Swampling for example - where you would be answering a question two pages before it was actually asked!"

AND THUMPED HIM

There's no denying that this is a very important release for CD32. For the first time, CD owners will have some thing that just can't be replicated on floppy. Hopefully, it will open up the market for this kind of game, and finally the boundaries between film and computer games will be knocke down. Simon The Sorcerer CD will b released in early May for the CD32, and we'll have a full review in the ne issue of CU AMIGA.

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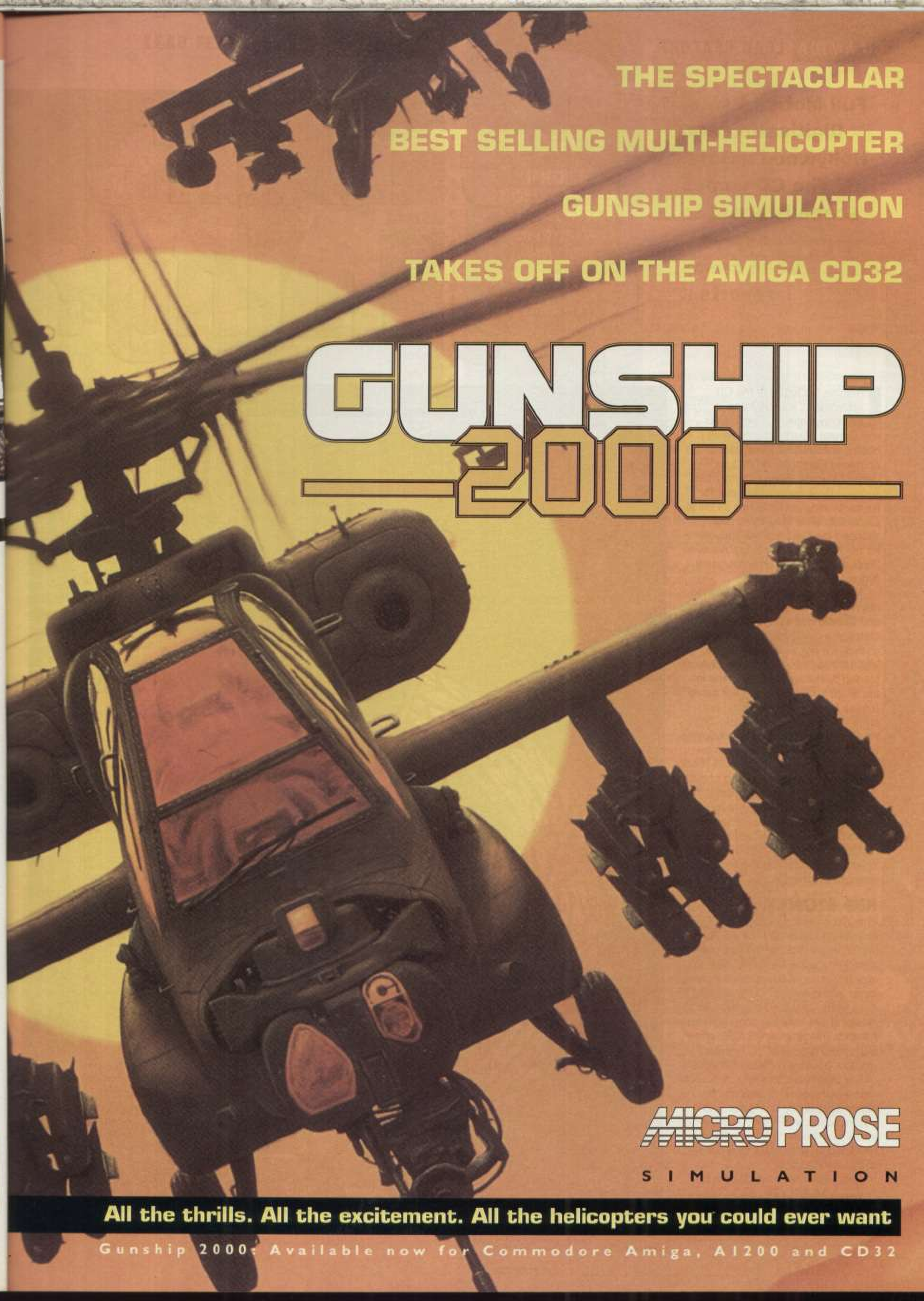
From left:Jon Haines (voices), Patrick Kelly (director), Dec Graham (voices), Simon Woodroffe (author), Paul Harris (engineer), Mike Woodroffe (Adventuresoft), Trisha Woodroffe (Adventuresoft) and Tony Dillon. Inset: Chris Barrie.

CONTACT BOX

For more information about Simon CD, contact:
Adventuresoft: 021 352 0847
K&A Productions 081 810 5285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» **Full Motion Video, Digitisation and Hollywood actors. The CD games scene is about to explode. Dean Evans reports...**

The future of gaming?

Imagine the future of the CD adventure... It's 1997 and Anthony Hopkins, Tom Hanks and Denzel Washington have all been nominated for Best Actor in the Animated Computer Adventure Game category. Sean Connery has just won Best Supporting Actor for his captivating performance as Bill in *Captive 4*, while Meg Ryan has scooped the Best Actress statuette for her role as the luckless Princess Stephanie in the blockbuster game *Kings Quest 9*.

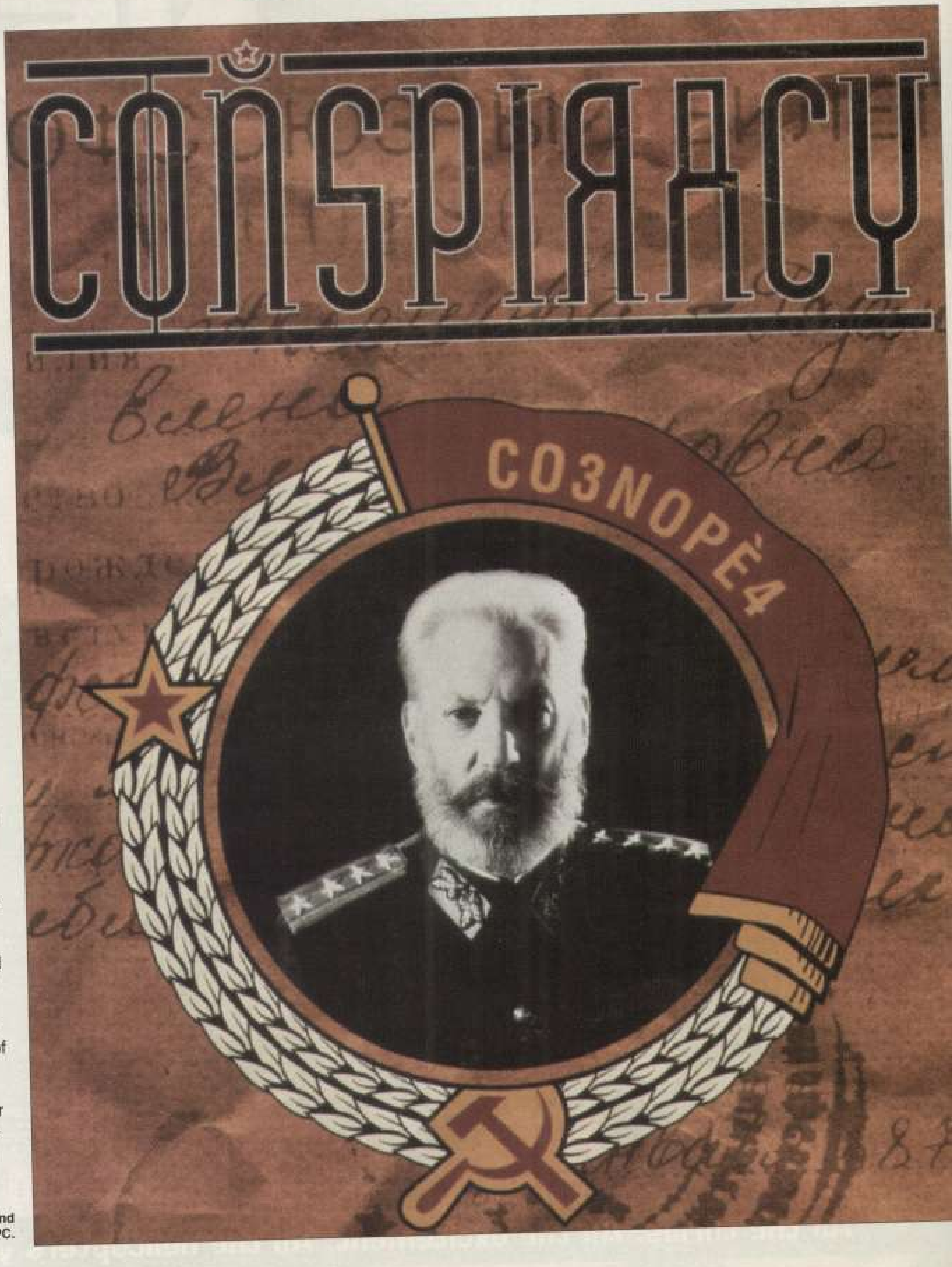
Maybe this is a touch far fetched but with veteran actors like Tim Curry and Donald Sutherland now lending their voice-over talents to adventure games, it's not as fanciful as you might think. Okay, Tom Cruise hasn't started pestering Electronic Arts for the script to its next computer game (not as far as I know anyway) but software companies are finally beginning to realise the value of employing big-name actors to add realism to their games.

People have been talking about the movie/computer game crossover for some time, but while the much vaunted 'interactive movie' is proving to be about as interactive as a multiple choice quiz, the CD-based 'talkie' adventure is going from strength to strength.

BIG MONEY

With CD games now costing millions of dollars to develop (*The 7th Guest* on PC was rumoured to have cost over $4m), software companies are now going to great lengths to sign up major acting names. Gone are the days when you could get away with grabbing Jim from the post room and Amanda from the canteen. Now few publishers can resist the high-tech glamour of using professional voice-overs, digitised actors and all-sorts of movie techniques. It adds much needed credibility to a game and if you've cast a well-known star in your latest blockbuster AGA, it will probably bump up your sales by a couple of thousand to boot.

Right now there are dozens of



Veteran Hollywood actor Donald Sutherland brings a touch of class to *Conspiracy* on PC.

Inferno on the CD32 will be voiced by a famous, but as-yet-undecided actor

games in production that boast big-name Hollywood stars in their cast lists. One of the biggest successes so far has been Sierra's *Gabriel Knight* on the PC, a voodoo adventure that has enlisted the talents of veteran actors Tim Curry (*The Rocky Horror Picture Show, The Hunt for Red October, Home Alone 2*), Mark 'Luke Skywalker' Hamil (*Star Wars*) and Michael Dorn (currently appearing as Worf in *Star Trek: The Next Generation*). With over 7,300 lines of recorded dialogue, amounting to more than three feature-length film scripts, Gabriel Knight looks to be an indication of great things to come.

FINAL FRONTIER

Donald Sutherland (star of more films than I can possibly mention) recently put on a thoroughly convincing Russian accent to play a Soviet dissident and the narrator in Virgin's CD adventure, *Conspiracy*.

Patrick Stewart (Jean Luc Picard from *Star Trek TNG*) can currently be heard voicing the narrative to Sierra's *Lands of Lore*, and he, Michael Dorn and the rest of the *TNG* cast have been signed up to provide the voices on MicroProse's forthcoming CD adventure, *Star Trek: The Next Generation*. But, in what must be the marketing coup of the decade, Interplay have managed to enlist the original *Star Trek* cast (William Shatner, Leonard Nimoy, DeForest Kelley et al) to provide the voices for the CD version of *Star Trek: The 25th Anniversary*. With the original cast on board, the game becomes infinitely better — it's almost like watching an old episode on TV.

So that's where Mark Hamil got to!

One of the most eagerly awaited CD32 releases (and the first to use real actors) is Digital Image Design's *Inferno*. Due out later this year, the CD version promises to have full speech throughout, with the hero played by an as-yet-unnamed classical actor. "Computers are in vogue,' »

Star Trek preparing itself for the final frontier – life on CD. Will it make it to Amiga CD though?

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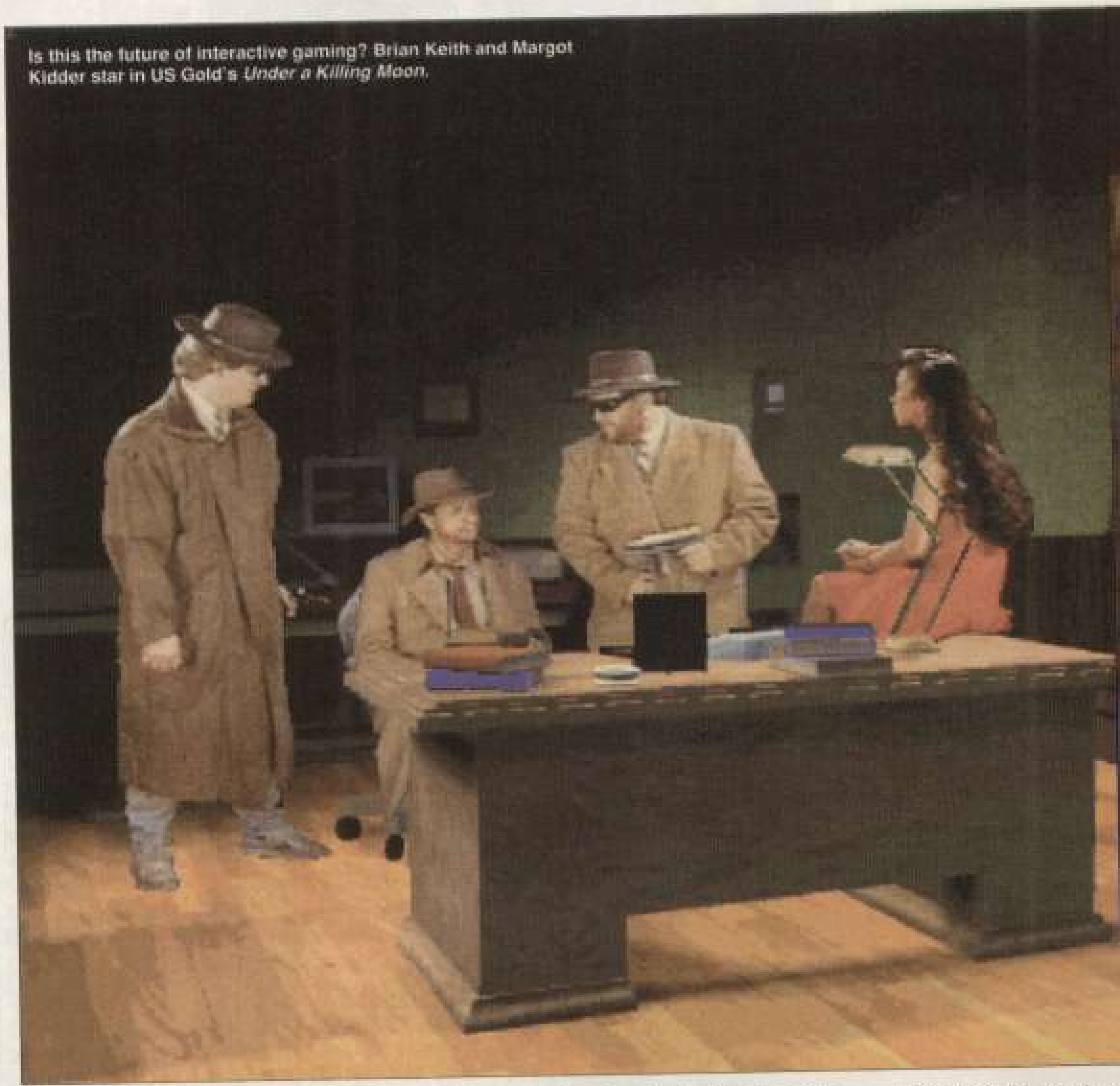
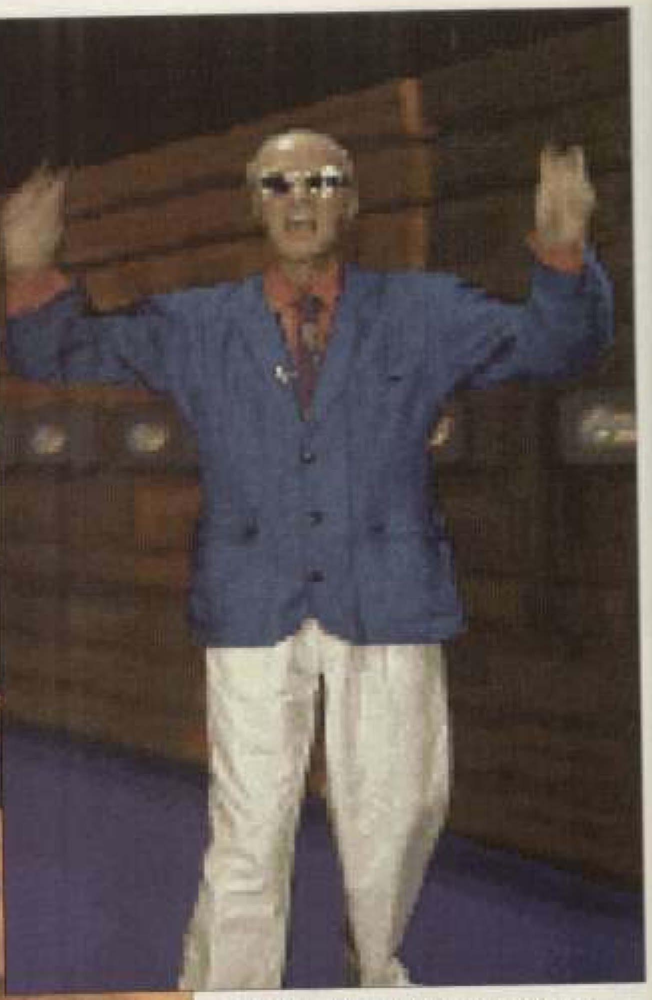


Is this the future of interactive gaming? Brian Keith and Margot Kidder star in US Gold's *Under a Killing Moon.*



Full Motion Video (FMV) has evolved from small, grainy images to pictures like these, from Megarace. With the much touted FMV capabilities of the CD32 it too should be able to run games like this - if they are producedfor it.

suggests Martin Kenwright, DID's director. "People, especially actors are taking the idea a lot more seriously. They're actually quite keen."

FMV HOPEFULS

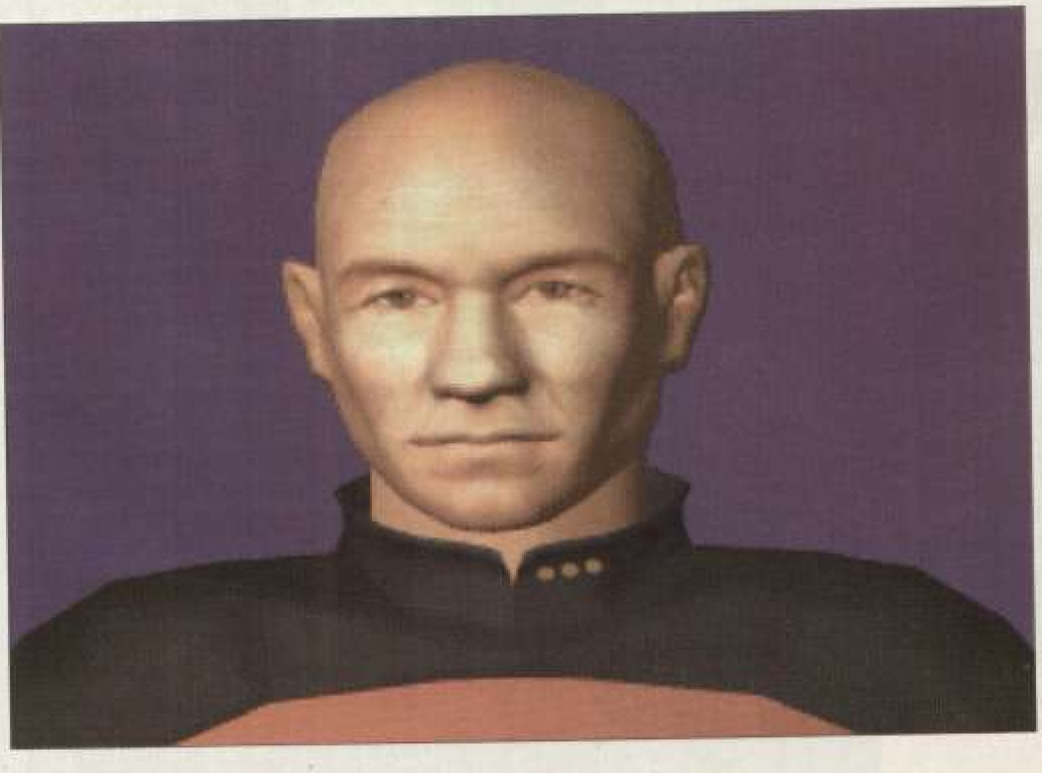
But what about full motion video? Well, apart from the batch of 'talkies' currently in production, games developers are still quite keen on producing games use digitised video footage of actors. Despite the fact that the gameplay in titles featuring FMV has often had little substance and early CD-ROM originals were often unintentionally hilarious because the standard of acting was so dreadful, with the inclusion of major Hollywood talent, developers still hope that an interactive, movie-like feel can be created.

Games like Activision's *Return to Zork* and Mindscape's futuristic gameshow, *Megarace* are already well down the FMV road but the BIG game on the horizon is US Gold's *Under a Killing Moon*, a crime story starring Brian Keith (*Young Guns* and several US TV series) and Margot Kidder (best remembered for her role as Lois Lane opposite Christopher Reeves' *Superman*). Using the latest chromakey filming techniques and high resolution backgrounds, *Under a Killing Moon* is currently state-of-the-art, a game that's proving to be so big it will need at least two CDs for the PC version.

So, as the ties between the games industry and the movie industry edge closer and closer together, perhaps film studios will start shooting footage for computer games at the same time they shoot their movies? This has already happened with the 3DO game of Sylvester Stallone's *Demolition Man*, and so there's no real reason why it can't happen again.

The computer industry is going through a period of massive growth and even the big film studios like MCA/Universal, MGM and Disney realise the potential. Even Steven Spielberg is getting in on the act with a CD game called *The Dig.* Where will it all end? Will Clint Eastwood want to direct a CD32 version of Mad Dog Macree?

Production costs on games are already soaring and developers are already holding casting sessions to decide who should play their pixel characters. Before we know it a top-notch CD adventure will have a director (probably stolen from 20th Century Fox), an art director, a music director, all sorts of designers, technicians and musicians, graphic artists stolen from the comic industry, a voice coach plus the 15 actors. Add ten minutes of video footage and you can throw in a make-up artist, a key grip, a best boy... the whole thing could get way out of hand.



Patrick Stewart provides the voice for his 3D model in *Star Trek: The Next Generation* from Spectrum Holobyte.

DID's *Inferno*, due out on CD32 as well as PC, with a digital soundtrack by legendary goth-rock band Alien Sex Fiend and a graphic novel by renowned 2000AD artist Sean Phillips, the game hardly falls into the category of 'cheap'.

WHAT ABOUT US?

Although not incorporating FMV, *Simon the Sorcerer* will show what can be done in the UK to spice up games by using the CD32s audio capabilities. Mass market Hollywood games may seem a long way off though, when you consider the cost of producing them using real actors (and I'm not talking second rate Americans), and consider the size of the CD32 user base – the figures don't just don't add up at the moment. But as the number of CD32 users increases, if full CD and FMV compatibiltiy comes to the A1200 and software publishers better recognise the potential of the platform then we might see some more of the big names mentioned here converted to our format.

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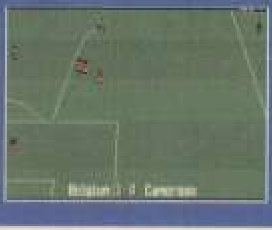

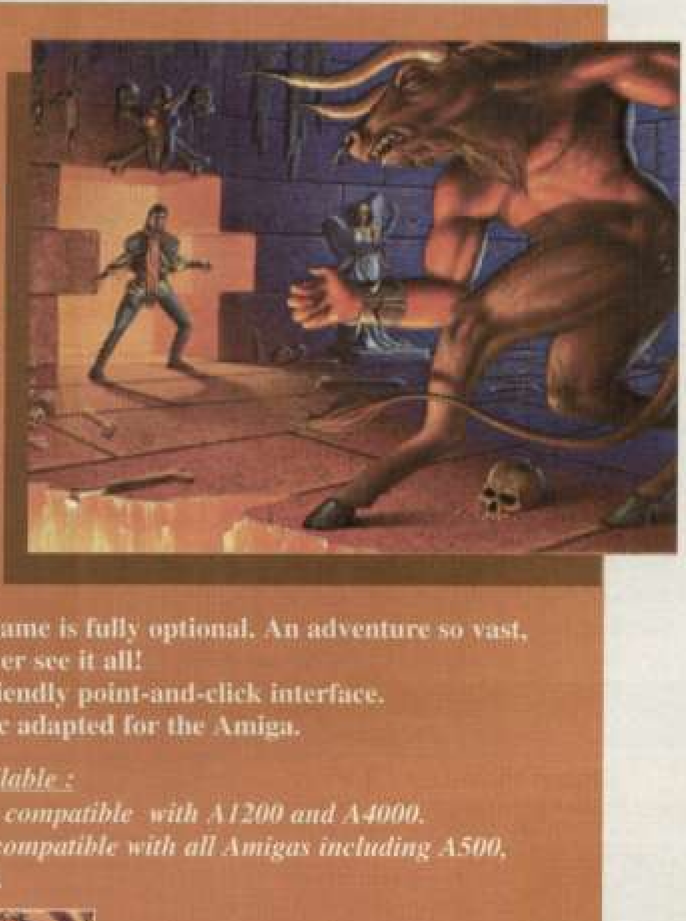

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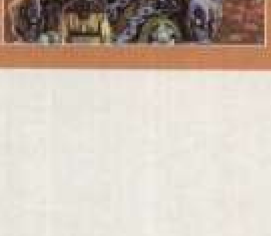

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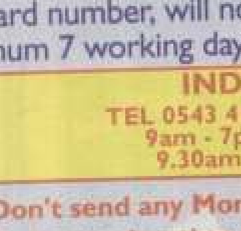

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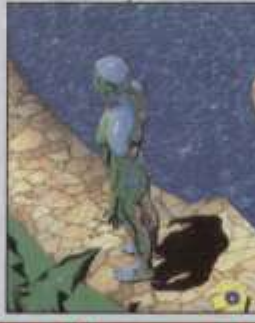

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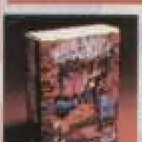

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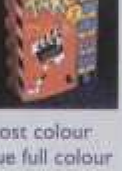

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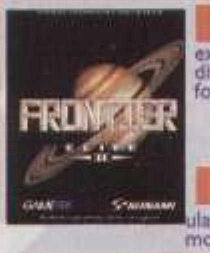

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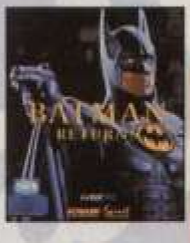

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CD32 ZONE

The only place for news and reviews on the CD32

NEWS

COMPLETELY CLUELESS?

This month, Domark release the follow up to the enormously popular *Trivial Pursuit, Here with The Clues*. Based on the book by horror writer Dennis Wheatley (grandfather of Dominic Wheatley – the Dom in Domark), it's a Victorian whodunnit where the player is a detective solving the murder of a police informer. The game was originally supposed to appear on CDTV many moons ago, but never actually appeared. After years of hype and rumour, however, it's finally about to appear. The price? A paltry £27.99.

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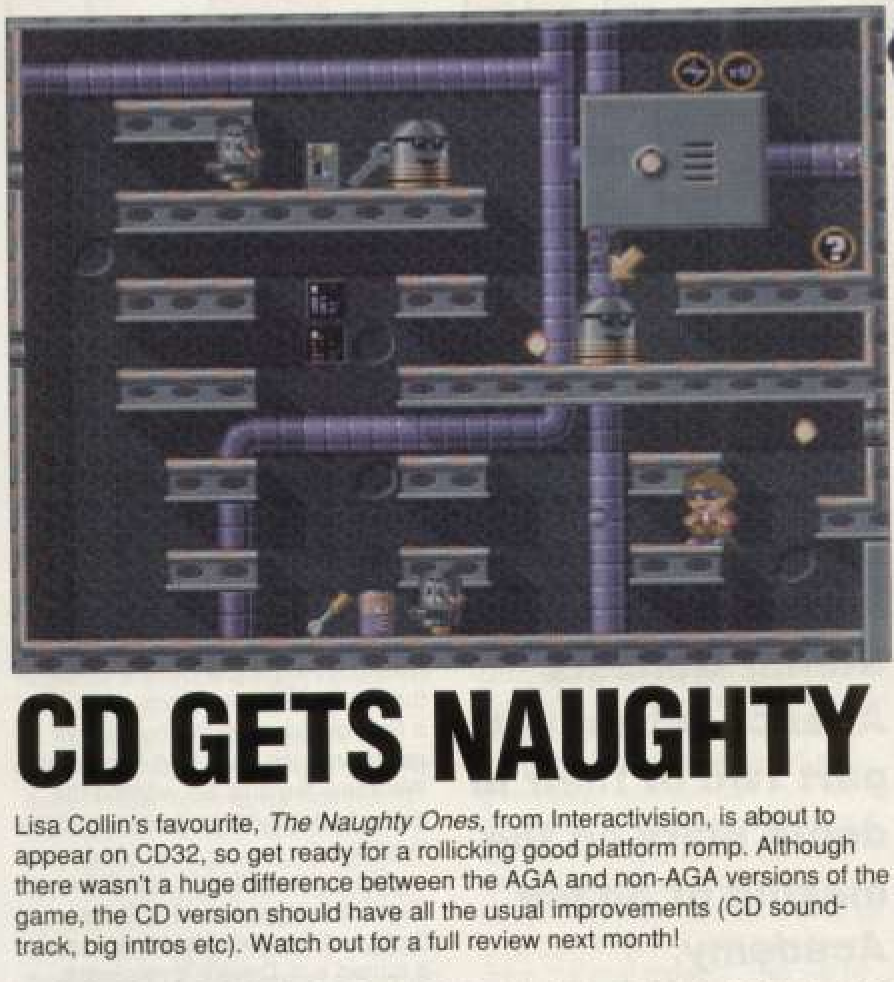
CD MASTERS

Codemasters are hitting the CD32 market in the next couple of months with the kind of releases that will make you squirm with excitement. First up is *Dynamo*, a CD conversion of their geriatric Amiga platform bounce- around. Most interesting and nostalgic of all, though, is *The Complete Dizzy* – a ten game CD featuring every *Dizzy* game ever released! Months of interest are guaranteed as you work your way through classics like *Desert Island Dizzy, Crystal Island Dizzy, Dizzy Gillespie* and *Izzy Wizzy Let's Get Dizzy*.



CD GETS NAUGHTY

Lisa Collin's favourite, *The Naughty Ones*, from Interactivision, is about to appear on CD32, so get ready for a rollicking good platform romp. Although there wasn't a huge difference between the AGA and non-AGA versions of the game, the CD version should have all the usual improvements (CD soundtrack, big intros etc). Watch out for a full review next month!

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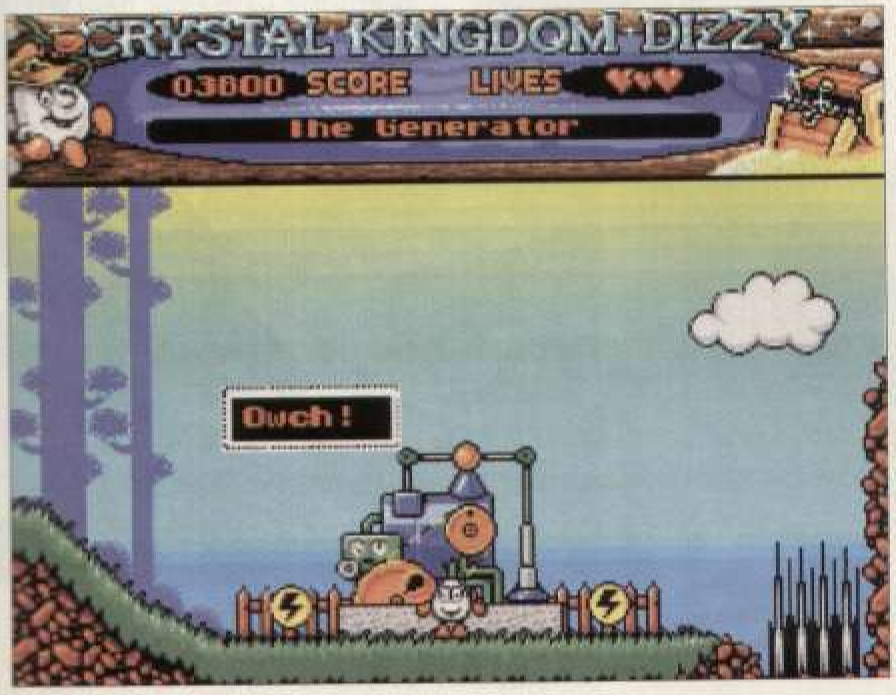
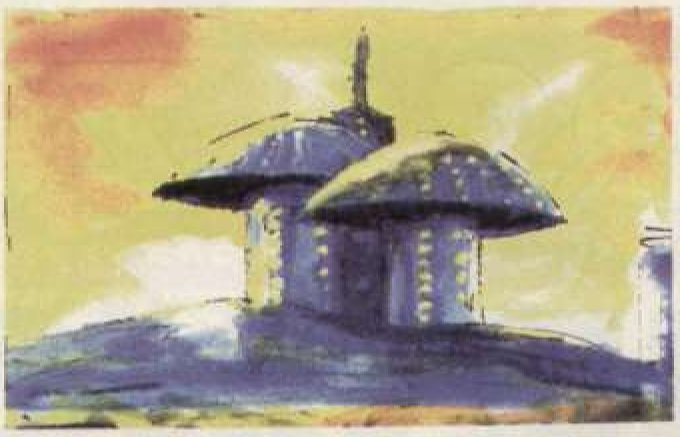


MICROCOSM GOES MAJOR

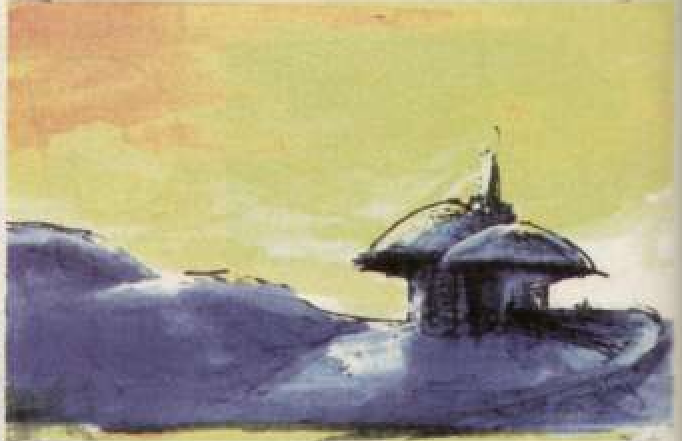
Psygnosis' stunning intravenous blast *Microcosm* was released this month to a superstar style response. The game, which features Silicon Graphic rendered backdrops and animations, and a superb soundtrack from industry music whizzkid Kevin Collier sold no less than an estimated 14,000 copies on day one! By the time you read this, those sales will have significantly increased, and alongside the PC CD-Rom sales at the same time, Psygnosis will be the happy owners of 20% of the market share!

Do you know how many copies your average Amiga game sells these days? Fifteen thousand would be considered a smash hit. Piracy must have a lot of bearing on that, especially when you compare it to sales of CD32 games. *Zool* and *Nigel Mansell* have both broken the 20,000 sales mark on CD, which goes to show what an excited and hungry market you lot are. I don't want to jump ahead of myself, but it looks like you may just save the industry. If a software house can make a decent profit from a copy of a game, and sell over 20,000 units with no piracy, then they're going to be a lot more willing to invest time and money on the kind of game that really shows the machine off. Rest easy, your future is assured.

Tony Dillon
Games Editor



SPACE ACADEMY. LOTS OF LIGHTS. FIERY SKY



SCENE WITHDRAWS TO LONG SHOT TO DISPLAY CONTEXT

DIARY OF A GAME

PART 2

The men with the comfortable winter wear are back! John Jones Steele and Dave Rowe, otherwise known as the Stellar Genesis Agency return with part two of their in depth diary on the making of *Space Academy*.

Last month we took a first look at *Space Academy*, the CD specific game being developed by The Stellar Genesis Agency. This month we dragged John Jones Steele away from his A4000 keyboard to tell us exactly what he's up to. It's month two, and it's time to get right into the job of completing the full design of the game. Once that's done and accepted, the real production work can start.

THE BEGINNINGS

"The outline called for three main areas to the game, building 1 which is a modern skyscraper, building 2 which was unspecified and a final spaceship area. Dave's first task was to work out the outline shape of the first building, with this done a final decision on the number of rooms in each level had to be made. We knew the size we wanted the game to be and that determined the level size.

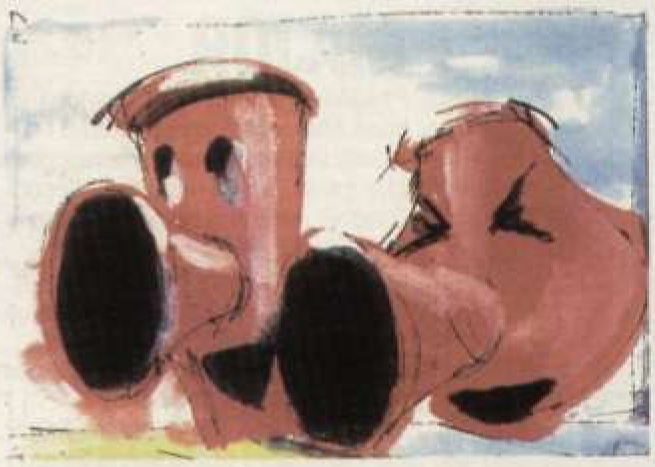
"To get variation in the game, we decided that we would split the design of the levels between us. As it turned out, Dave's levels were both more interesting and more complicated than my designs, for example, my designs had only a few multi-level rooms where Dave's had most rooms multi-level, with lots of the levels only connecting when you have solved lots of puzzles – so in the end most of the levels bear his artistic slant. The work for building 1 alone, took up the best part of two weeks, but the end result has certainly justified all the effort."

After the first drawings were done, it was time to get out the balsa wood and start building models of the rooms, as John explains. "Once the levels were complete, we could then begin adding the doors and switches. Having the whole 3D room available from the models means that problems like putting switches in places that cannot be seen is impossible (unless we decide they should be hidden from the player!). It is very easy when designing only on paper for objects to become hidden, but by having the 3D models, we can see exactly where things can be placed so as to be visible from all angles."

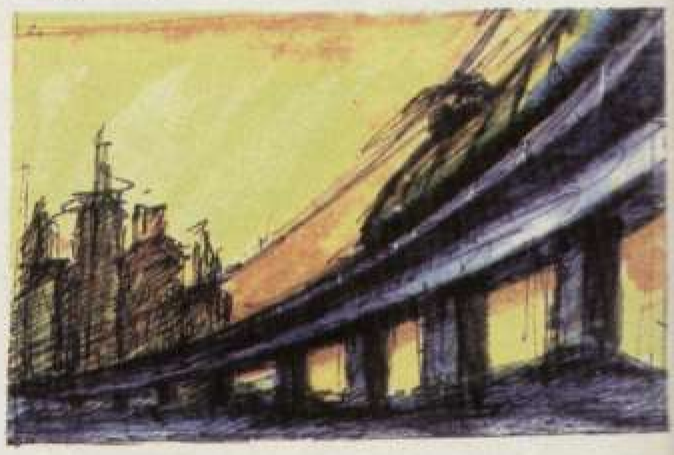
RUSSIAN ROULETTE

Time to cripple the artist, as they say in Russia. (Do they?).

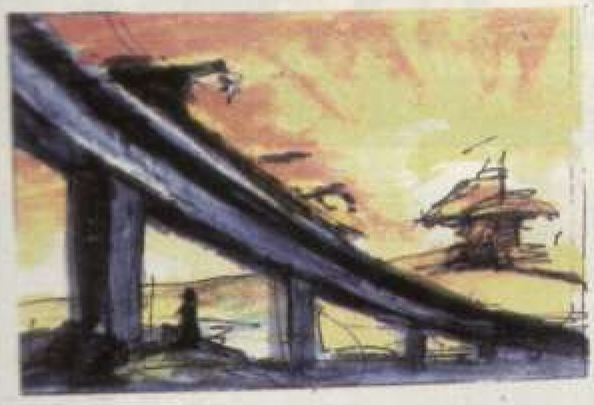
"We were now in a position to make final decisions on some of the constraints that Dave would have to work to while producing the artwork, sprites and backgrounds. With 256 colours to work with, we decided to allocate 128 colours for sprites and



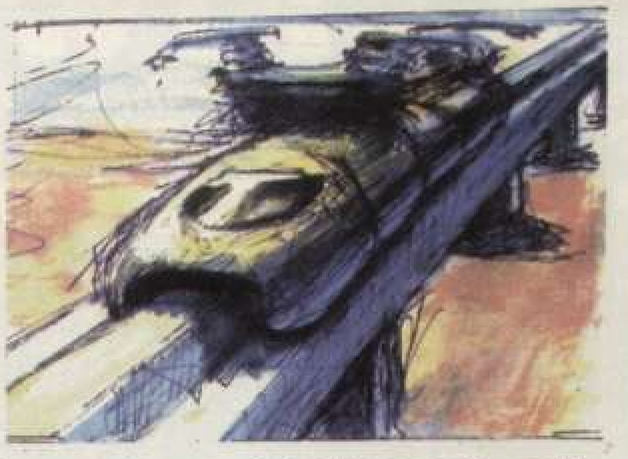
CLAXONS, FOGHORNS + SIRENS LET RIP MORPHING BETWEEN STRAIGHT AND BLOATED



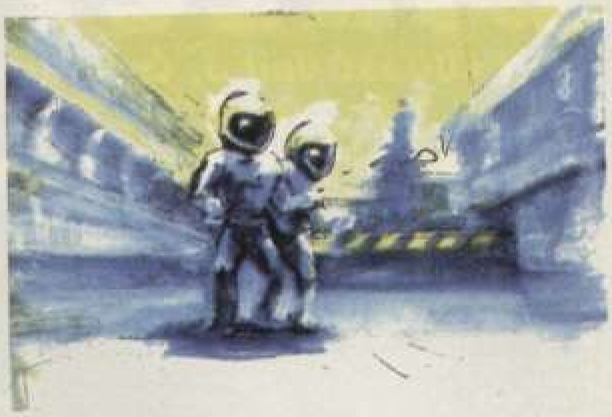
TRAIN ENTERS TOP RIGHT AND DISAPPEARS INTO A DISTANT CITY.



SCENE TRACKS BACK FURTHER TO REVEAL CLOSE VIEW OF UNDERSIDE OF MONORAIL WHICH WHIZZES BY OVERHEAD.



CLOSE-UP OF TRAIN RAY-TRACEING ITS WAY OUT OF SHOT BOTTOM LEFT



CLAXONS, FOGHORNS + SIRENS LET RIP MORPHING BETWEEN STRAIGHT AND BLOATED

128 for backgrounds. Each room in the game has its own character and the palette will change for each one. Some rooms are part of an office environment and have the obligatory filing cabinets and video terminals, others are part of laboratory complexes and have retorts and Bunsen burners on benches. There are shopping malls and unfurnished areas. Building 2 is set in an old castle, which has been modernised in certain areas and has a mixture of hi-tech and Mediaeval in an anachronistic environment. The space-ship is of an obsolete design given to the *Space Academy* to train the cadets ready to enter the full Space Service."

The use of CD makes for a lot of variety in the graphics, something that the SGA have been happy to exploit.

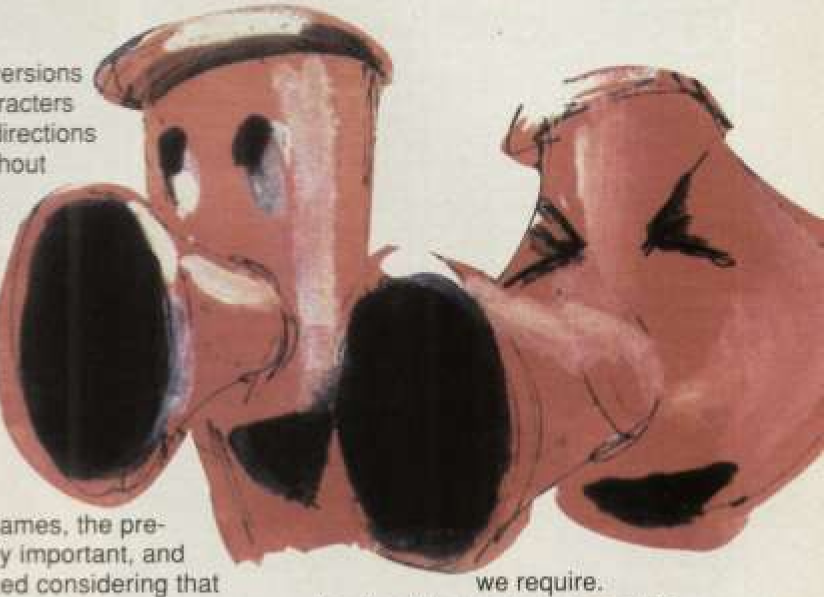
"As this has been going on, when the weather permits, Dave has been out with his video camera looking for interesting textures for walls and floors, rather than using the usual approach, ie, drawing them, which he then grabs and inputs into the Amiga with *Vidi(12) Amiga* as a 16 colour grey-scale. He then maps this into the palette for a particular room and saves them in his textures library. This gives a lot more character to the room, and allows for realistic textures like wooden wall panels, parquet tile flooring, bare concrete walls, glass panelling or even bare rock.

ROUGHING IT

"So that I can make a start on the programming, we had already decided to create all the rooms as rough mockups (see accompanying screen shots). This would allow me to create all the collision detection maps and get the characters to move around, without having to wait weeks for finished artwork. In our discussions with Steve Whittle from Mindscape (our producer on this project) it also became apparent that this would be a huge benefit for the project as a whole.

"Normally during a game, it is only in the very final stages that the game testers can really hammer a game and find the bugs, but with this game, as a level is completed with all the rough graphics, we can hand it over to the Quality Assurance department and get early feedback. Once passed, the finished artwork can be slotted in without effecting the gameplay at all.

This also applies to the character sprites, the initial version of the game has all the characters 'ice-skating' across the screen (Dave has produced versions of the main characters facing in the 8 directions required but without the walking animations, hence the sliding look as the initial work round), but as the animations appear, the game takes on more of a finished look."



As with all games, the presentation is very important, and SGA have started considering that already.

"Dave has also produced the title sequence storyboard. The opening sequence shows the Space Academy building, this pans out to leave the building on the sky-line with the monorail heading out to the nearby city. The reason for your characters leaving the *Space Academy* and heading for the city in the intro sequence will be given in the documentation which will be given away with the CD. This will be a fully rendered 3D animation, as will the various outro sequences. We are currently using *Imagine* to do the modelling, but will shortly be changing over to *LightWave* to produce the final product. This will tie up the 4000's we have every night until the game is released at the end of the year. Once we have the wire-frame version running, we can then liaise with the Mindscape music department to get the style of music we require.

For the full story-board, see the accompanying pictures. We also need to produce various the 'outro' sequences for the different end-game sequences.

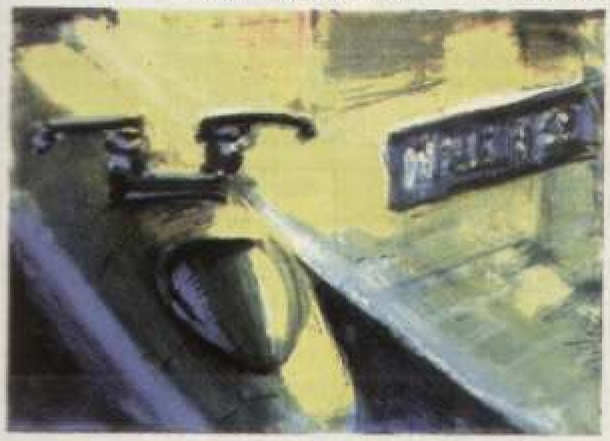
To find out what these are like, you will have to wait until the game is released and play it (We can't give everything away)."

Next month we'll tread on the toes of the strapping lads in Wales, and delay the project by another few hours as we get into the nitty gritty of production. See you then!

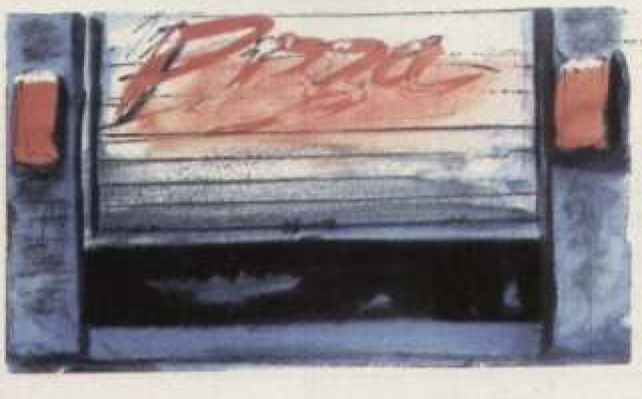
STOP PRESS

"We have just had a meeting with our producer, and the design has been accepted. Now we get down to the real meat of the game."

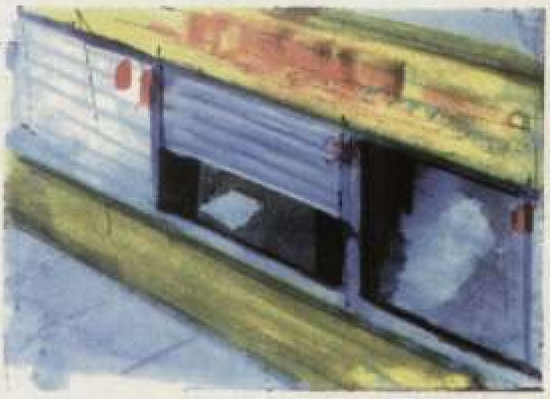
Next month we will tell you of the first month's art and programming trials and tribulations.



TRAIN PULLS INTO A MONORAIL STATION AND GRINDS TO A HALT. THE STATION ABOUNDS A MALL AT THE BASE OF A TALL BUILDING.



CLOSE-UP OF A SHOPFRONT DROPPING ITS SHUTTER WHILST LIGHTS FLASH ON AND OFF. THIS IS OBVIOUSLY AN OFT REPEATED ROUTINE.



LONG SHOT OF SHUTTERS CLATTERING DOWN, ONE AFTER THE OTHER, IN A ROW OF SHOPS.

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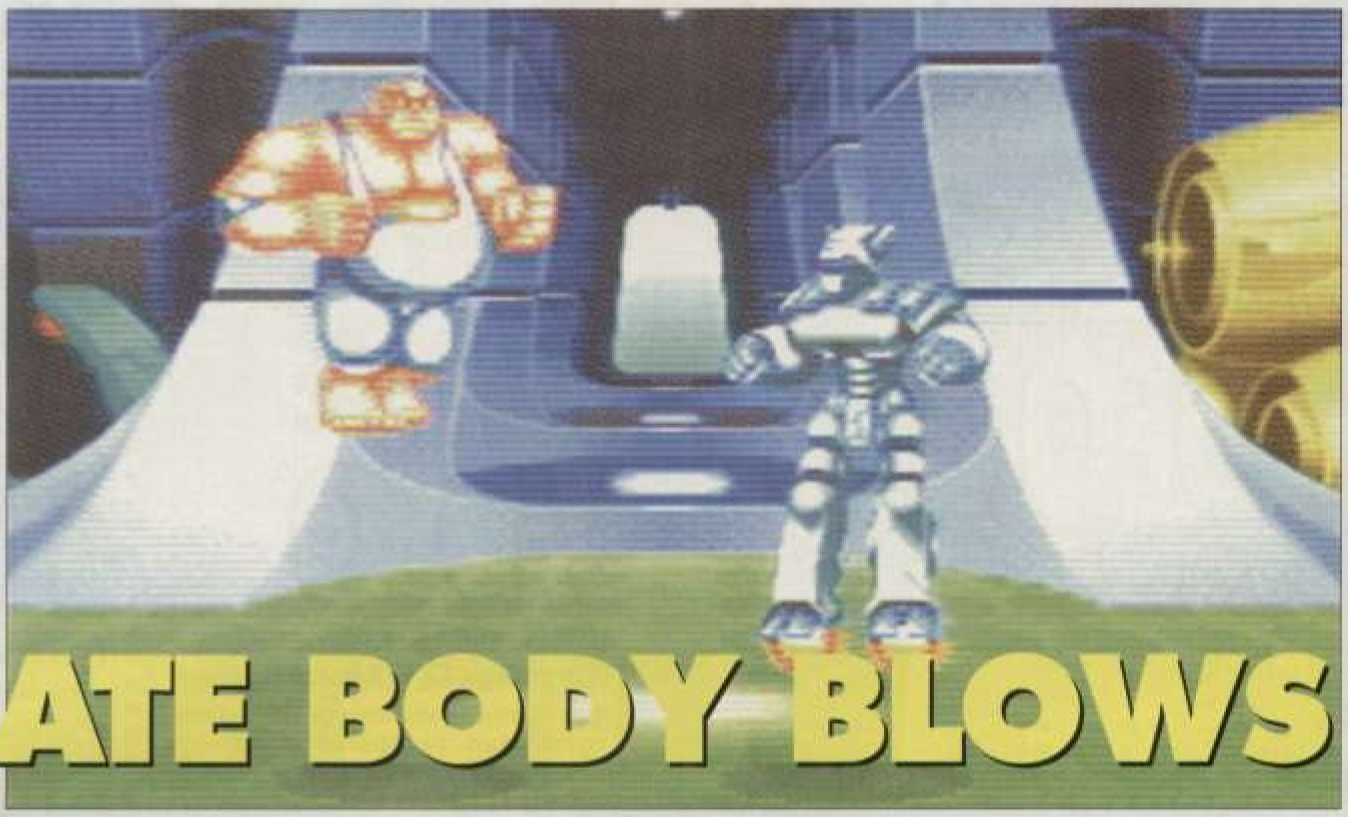
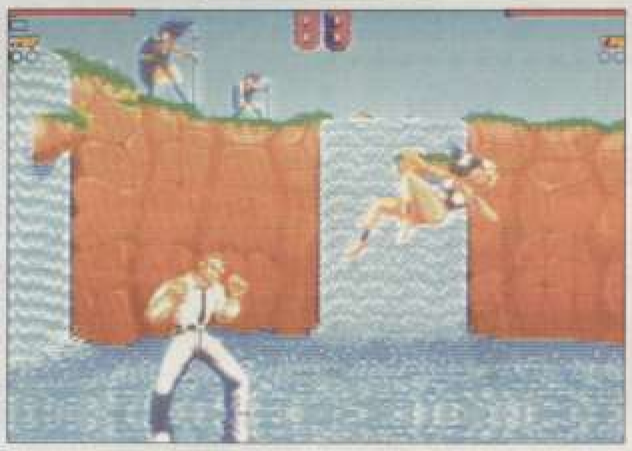
But the CD32 already has a beat 'em up, you all cry. Yes, but remember that was *Dangerous Streets*, so Team 17's new kick around doesn't have any competition, according to Tony Dillon.



ULTIMATE BODY BLOWS



If you've been reading CU AMIGA for some time you may remember that I didn't really like *Body Blows Galactic*. I loved *Body Blows* though, and I have a forgiving heart, so I plumped for this review. At first glance, *Ultimate Body Blows* is merely an amalgamation of the original two *Body Blows* games, featuring as it does 21 characters, dozens of backdrops and everything else associated with the games. However, this is a lot more than just a combination of the first two.

With no pretence of plot whatsoever, *Ultimate Body Blows* is nothing more than a straight, one-on-one fight between a group of martially gifted individuals. Kai-Ti is the young girl with the lethal jaw kick and the 'Finger Press' move that causes stars to appear from her head. Mike can turn into a whirlwind. Dino throws his rider at you. Tekno leaps into the air and fires rockets at his enemy. I don't need to go on, do I. You've all played this sort of beat 'em before. It calls for skill and joystick jugglability.

TWISTING AND TURNING

Okay, fighting bare-knuckled might not sound all that exciting to some people, but I haven't explained the myriad of ways in which you can actually hit your opponent. There are two skill levels against the computer, and three speeds. (Turbo 2 is practically impossible to play – you just can't follow the computer!). Single player and two-player are only to be expected, but tournament (with four or eight players) and Tag Team are more original approaches. Tag Team is my personal favourite, as between 2 and 21 players per team go one on one. As one player is knocked out, they are replaced with a new player and the winner of that game gets half an energy bar replenished. The first player to knock down all of the other player's characters wins. This makes for some very long, and very exciting games.

Body Blows Galactic was far too easy in my opinion (I finished on my first go!), with most characters easily beaten by using the same move over and over again. However, the intelligence has been greatly improved for *Ultimate Body Blows*, and that particular tactic just doesn't work any more. Interestingly enough, you can't even use similar tactics with different characters, as everyone reacts differently. For the first time on an Amiga beat 'em up, as far as I am concerned, there is enough difference between characters for people to be able to specialise. Some people will be Maria players, while others will only feel at home with Junior. I can see a lot of practice going on during office hours, let me tell you.

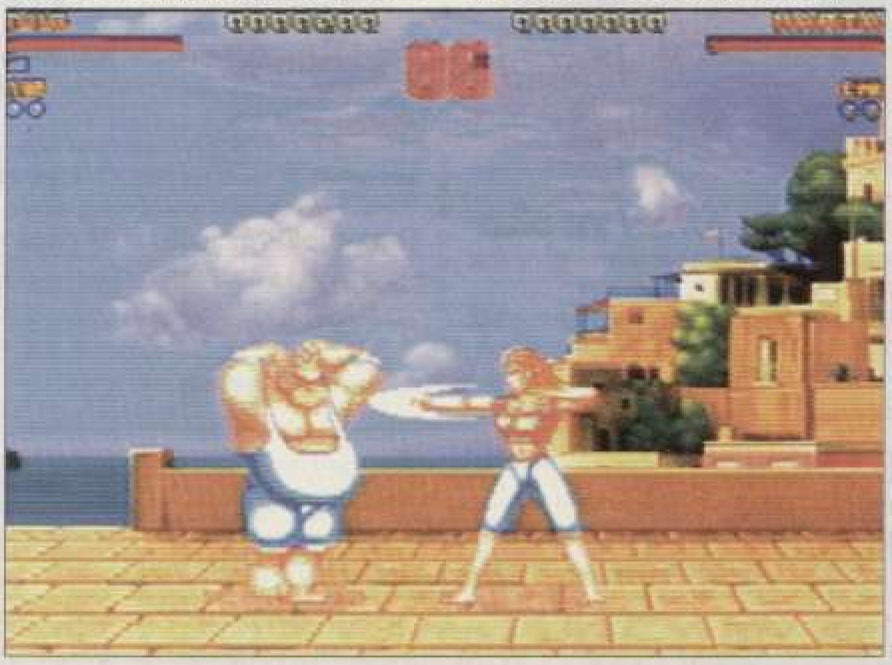
PHWOAR!

The game looks stunning, using the CD32's 128 colour palette to create a very realistic arcade look. Unlike a lot of beat 'em ups, the sprites actually fit in well with the backgrounds, instead of floating around like cardboard cut-outs in front of them.

The extra storage space on the CD has been used well, to store large, colourful and varied backdrops (love the clouds!). All in all, it's a great looking game.

If only I could say the same for the sound. Unfortunately, *Ultimate Body Blows* uses the same samples as the original game, meaning that the characters spout the same unintelligible drivel at the end of the each match. I had hoped with the CD that they might have something more to say, or that the sound effects would have been beefed up a bit, but no luck. It doesn't really detract from the game very much, but it's a shame nonetheless. The other problem is that movement is still a tad jerky, but it remains better than most.

Ultimate Body Blows is a cracking game, and one hell of a beat em up. The sheer number of characters to learn means that you'll spend ages just getting to grips with the whole thing. As for two-player games... get some friends in and go for it! CU



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NUMBER OF PLAYERS:	1-8
MEMORY:	1Mb

GRAPHICS	88%
SOUND	74%
LASTABILITY	89%
PLAYABILITY	84%

> *A worthwhile beat 'em up, that looks good.*

OVERALL 84%

CD COMPILATIONS

Steve Keen settles down in front of the biggest stack of games he's ever seen.

For those of you not in the know, a quick explanation of PD software. PD stands for Public Domain and PD software is software that has been put out by programmers into special PD libraries. It's not really commercially available in shops and only sold through mail order companies. PD software falls into three categories, PD (software that may be copied by anyone for absolutely no charge and distributed anywhere for free), Shareware (software that may be copied and spread about, but for which the author requests the user to send him a small fee, usually about £5, and, for which, he relies on the users' honesty) and Licenseware (software that is placed in specific PD libraries by the author with express instructions that only those libraries chosen by him can stock his title and for which he requests a token fee from the users). All this techie talk basically means that whatever kind of software you want, utilities, games, virus killers - you name it, there's certain to be an equivalent, sometimes better, version available in a PD library, for a fraction of the commercial cost. The storage space provided by CD-ROM makes it ideal for games collections and PD makes ideal fillers – hence these two compilation CDs.

Quality intro screen from a non existent game.

LOCK-N-LOAD

17 BIT SOFTWARE £19.99 OUT NOW

What you see is what you get with *Lock-N-Load*. Probably one of the biggest collection of software we've seen on a single disk – to be pedantically precise 999 games! To coin a phrase: there really *is* something for everyone, including some very useful utilities. Not all of it will be useful to CD32 owners without access to a key board, floppy disk drive or mouse, but as all these compilation disks are compatible with CDTV owner's machines, it's worth mentioning. So lets get straight down to it with the games.

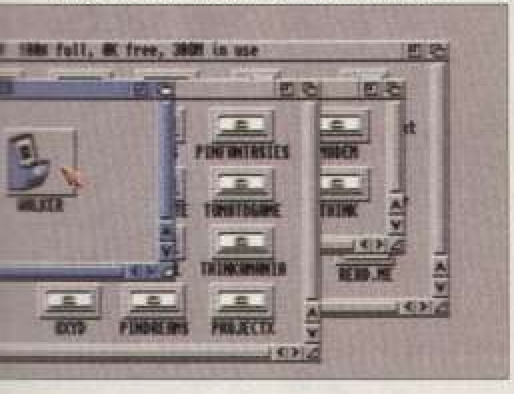
Once you've loaded and got past the strangely familiar Amiga workbench screen, you just won't believe your eyes. There's folder after folder of menus and each drawer seems to be a Pandora's box of games that are literally brimming over the edge, trying to burst out.

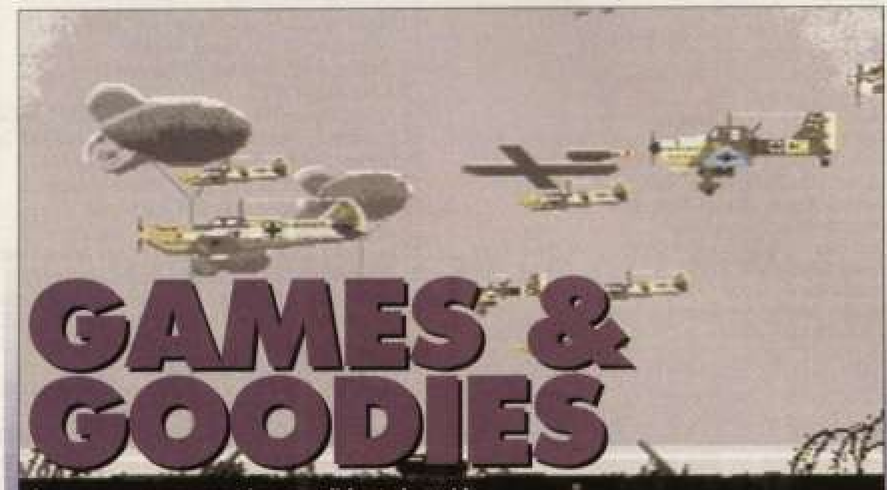
Initially there are about eight drawers and the Mega Games folder is the one that caught our eye. Behind that lies a further menu of about eight categories, including commercial game demos, sports, adventure, arcade and even a whole host of *Tetris*-styled games.

Each one of the 12 odd menus contains nearly forty games and even more sub folders. For instance, inside the arcade folder are *PacMan*, shoot 'em up, platform, simulation menus and it's not until you break into one of these that you get the explosion of game names. The old classics like *Defender, Space Invaders* and *Missile Command* are almost lost amongst the scores of other titles. Some are familiar, but most are variations on old themes. Most will have been long consigned to the back of your mind but you'll be more than happy to rediscover them again. Of note are Jeff Minter's classic *Llama Tron* games and the fantastically-professional looking Asteroid clone, *E-Type 1+2*.

This disk is an excellent purchase. Just when you think you've opened every drawer you suddenly discover another – one which contains the whole collection of *Assassin* games, and more too. Value for money or what? I'm pleased to see that it will work on the much neglected CDTV too, as well as its more modern brother. **81%**

Games anyone? Most are old, some are good.





GAMES & GOODIES

Some programmes require a small fee to be paid.

MULTI MEDIA MACHINE £19.99 OUT NOW

Games And Goodies can't quite match up to the sheer number of games on *Lock-N-Load*, but what it lacks in quantity it more than makes up for in quality. Over 100 top PD games of the last few years are etched onto this silver disk, as well as some of the most startling demos and animations that we've seen. Many have been individually reviewed in CU AMIGA's PD scene and if you were ever thinking about having a gander at what it's all about, you couldn't possibly get a much better start than by purchasing this disk.

This really is a trip down memory lane. Amazing demos and famous animations, like the incredible *Vista landscape movies* and the vector *Juggler*, rub shoulders with famous animations such as *Coyote*. Apart from the games, pick of the crop must be the collection of Eric Schwartz cartoons produced in *Movie Setter* and laid down on the disk. Some of the cartoonist's best work is here, including the hilarious *Korean Conflict, Stealth Fly By* and *Late Night*. The only 'toons missing are the ones starring the busty squirrel, Amy, and the friendly frog, but you can't put all your eggs in one basket.

All the demos here load quickly and sound is a lot crisper on the CD than when it was being lifted from the floppy versions.

From the gamer's point of view there are versions of *PacMan, Asteroids, Frogger, Defender* and scores of others you've never played before. A lot seem to have been created using AMOS and *Shoot 'Em Up Construction Kit*, but most are well presented, if a little hard to play. Check out the crazy shoot 'em up *Batman*, where you take on the comical joker and his henchmen whilst piloting the Bat-plane. Another brill game is the wacky *Dr Who* adventure featuring real samples from the TV show.

This is a great introduction to the world of PD and shouldn't be missed. My only gripe is that there isn't any menu function on either this or *Lock-N-Load*, so every time you load a demo or game you have to reset your machine and go through all the menus again. Even on the floppy versions you could usually press Escape during a demo and get back to the workbench screen without any fuss. Still, you can't have everything but this disk is close. **85%**

Just one of the top -quality animations.

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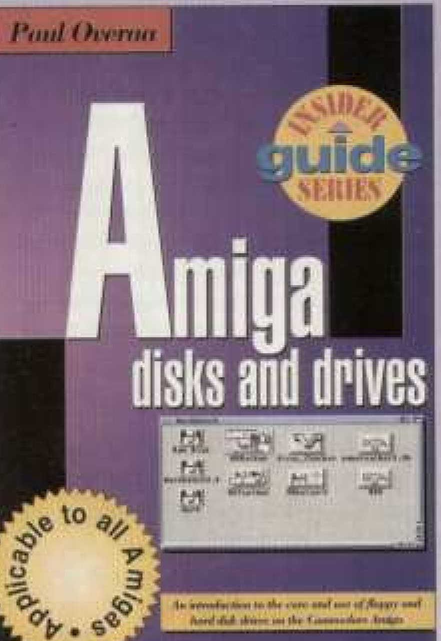
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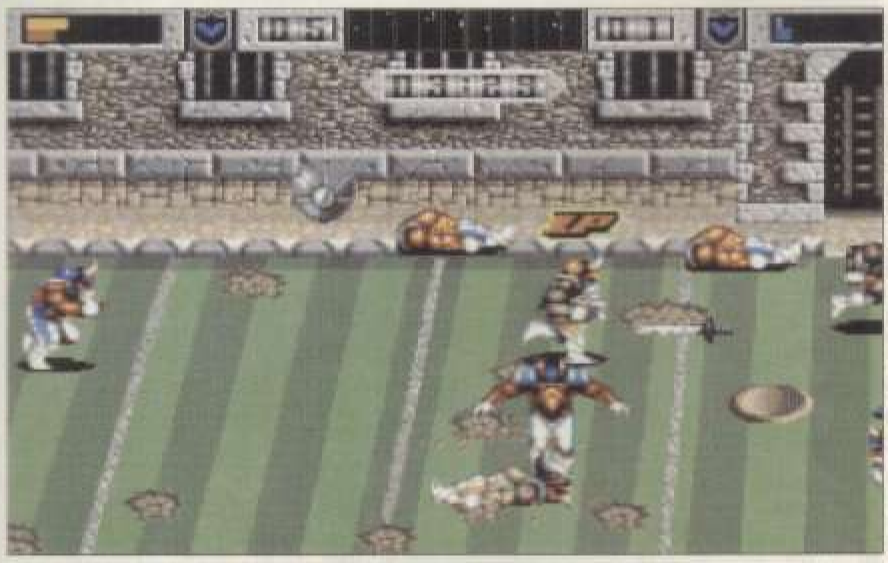


BRUTAL FOOTBALL

MILLENNIUM £29.99 OUT NOW

Violence, violence and more violence, this is the name of the game in *Brutal Football*. Upon slapping in your CD you're presented with a rather nice intro sequence of a scientist at work on his football players – but something's wrong. I fiddle with the volume, no joy. Are the audio leads properly set up, yes. So what's going on? For the intro sequence Millennium have left out music. This may be unimportant, but games on the CD32 should really use its potential for top quality music.

When the intro is finished, you are presented with an options menu (and some background music, at last!). There are league, unfriendly and knockout competitions. The game itself is based (very loosely) around American football, with the ball and pitch markings being the same, but this is where the similarity ends. You get to control seven players around a pitch, viewed using a side-on perspective reminiscent of so many 1980's soccer games. The difference is that *International Soccer* didn't have decapitations!

The pick-ups littered around the pitch, such as disembowelling swords and grenades that make a real mess of the opposition, add a lot to the gameplay. And! – If there are no pick-ups around, you can punch someone's head off and use it as a weapon instead. (Controversial eh?)

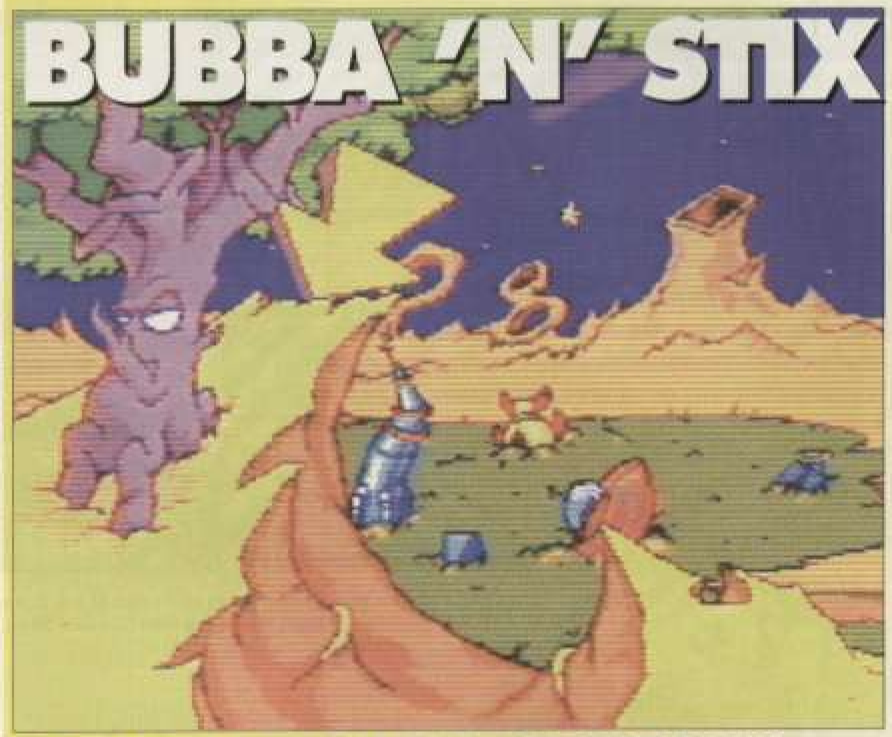
Another macabre, but I suppose you could say, realistic, feature is the fact that bodies stay on the pitch after you have killed them. Graphically, the sprites are good looking, but remain the same throughout the basic Viking teams. However, there are some good opposing teams that look like over sized lizards, goats, rhinos and so on. What lets *Brutal Football* down is their movement. The action is fast, especially when your players have been souped up in the locker room, but the movement isn't all that smooth. In general the the gameplay isn't affected very much though, it's really only noticeable when there is a large crowd of players in one place scrambling for the ball.

Brutal Football is good, clean (well, lots of blood, sweat and black pudding never hurt anyone) fun, and really comes alive when played in two-player mode!

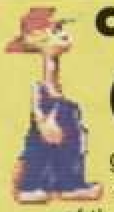
Stephen Enstone

83%

BUBBA 'N' STIX



CORE DESIGN £29.99 OUT NOW



Core Design have built up a good reputation for platform games over the years, although many have been of the 'race-from-left-to-the-right-jumping-on-things' variety. That probably explains why this one came as such a shock when it was released on floppy late last year, shortly before this direct port to CD. More puzzle based than most of their previous efforts, it tells the tale of a young geeky truck driver called Bubba, who gets abducted by aliens who want to place him in a zoo. Unfortunately the ship breaks down and you end up dumped on an alien planet, with only a small stick-like alien for company. From here you have to find your way home.

Stix, as your alien friend is named, is an extremely versatile little chap, who can be used in all manner of situations. You can throw him as a boomerang, poke with him like a pool cue, stick him into holes in walls and use him as a step, brace one end of him under things and use him to lever them, along with a thousand other uses.

On CD the game is almost exactly the same as its floppy counterpart. i.e; the same high quality graphics and animation, the same amount of charm and character and the same taxing, yet well within the realms of playability puzzles. The only real addition is the extended intro sequence at the start, which gives you the plot in cartoon form. A game well worth owning if you fancy a real challenge.

Tony Dillon

81%

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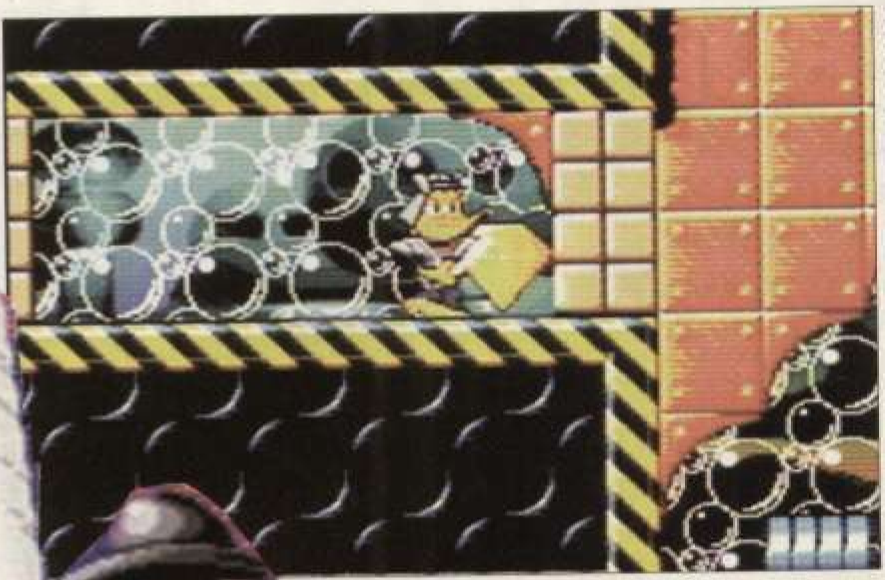


Ha so– when you can pluck (get it) the stone from my flinger then it is time to go.

DONK

SUPERVISION £29.99 OUT NOW

We've seen it all now. *Mutant Turtles, Biker Road Rats, Superhuman Thunder Cats*, but *Samurai Ducks*? Come on! Well, surprising as it may seem, that's just what Supervision's new hero is, a fair feathered fowl with a taste for the orient. After a good stint on the Amiga, and then on the consoles, it was only a question of time before the yellow feathered one got a the taste for some CD action.

Donk was snatched from the jaws of death by a kind hearted Samurai, who was just about to drop him in his stew. Rather than tuck into the plump breasted bird the kindly sage decided to teach him the mystical ways of the Warrior and impart to him all the secrets of the ancient orient. Donk is now courageous, strong, cunning and possesses a great line in magic, which allows him to transform into a plastic duck, of the bath toy variety, and float. In this version Donk's on his final quest to become a complete warrior and has to rescue the magical gems that protect Earth's atmosphere.

When all the hurly burly's been seen and the mystical smoke clears, Donk is basically just another platform game, albeit with a slightly oriental crispy fried duck aroma to it. He's not the greatest character to grace the video game world, being rather unresponsive and having an annoying habit of falling off any platform you try and position him on when jumping. In his quest he meets all the usual assortment of wrong doers and beasts, but you never really get your interest up to stay with him very long. Some of the screens are pretty to look at and all the music's been reworked and added to completely new samples, so there has been a slight effort made for the CD32 version. Animated sequences also link the levels, but they're nothing special and you wouldn't miss them if they weren't there at all.

There are 112 uninspiring levels to negotiate and, if you can stick with the programme long enough, you'll be able to collect the magical properties necessary for Donk to perform. The shelled one can protect himself with an egg shield and blasting bombs and a simultaneous two player mode is also included with a very restricted viewpoint of the level and reduced sized sprites. This can prove to be a laugh, but at the expense of frustration.

So, yet another flop for the humble CD thirsty machine. A huge stack of great games can only be just around the corner now. Lets hope we can all hang on a bit longer, eh?

Steve Keen

73%

DISPOSABLE HERO

GREMLIN £29.99 OUT NOW

The CD32 should have some absolutely scorching shoot 'em ups by now. Software companies have been churning out absolute monster blasters for years for far less impressive tech-spec machines than Commodore's console, so where are they? Gremlin is not well known for its shoot 'em up pedigree, but they've given it a damn good shot though with *Disposable Hero*.

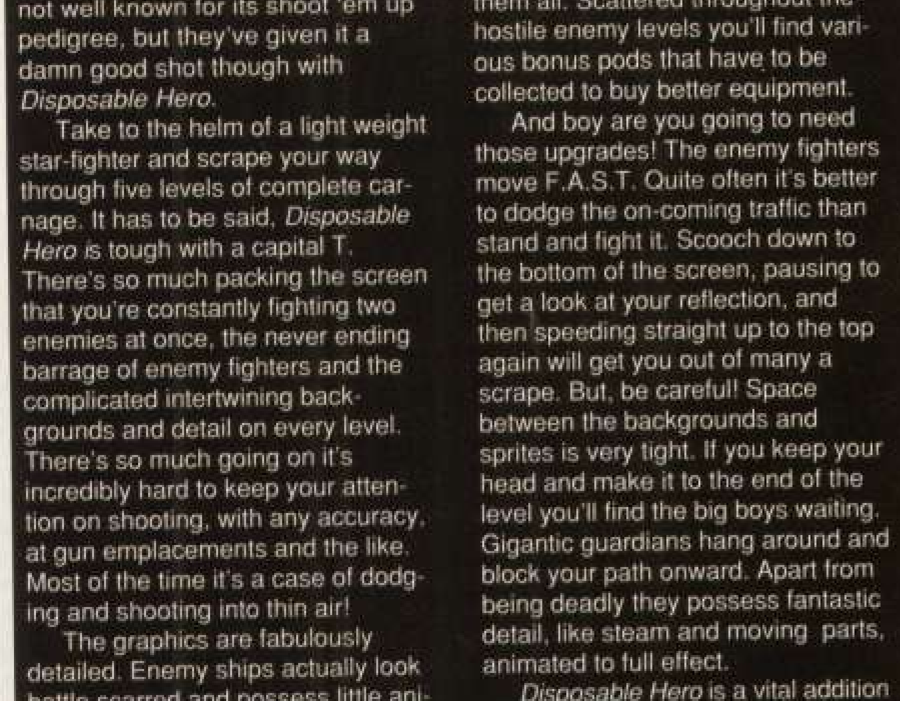
Take to the helm of a light weight star-fighter and scrape your way through five levels of complete carnage. It has to be said, *Disposable Hero* is tough with a capital T. There's so much packing the screen that you're constantly fighting two enemies at once, the never ending barrage of enemy fighters and the complicated intertwining backgrounds and detail on every level. There's so much going on it's incredibly hard to keep your attention on shooting, with any accuracy, at gun emplacements and the like. Most of the time it's a case of dodging and shooting into thin air!

The graphics are fabulously detailed. Enemy ships actually look battle scarred and possess little animated bits of machinery on their surfaces that twist or click as they speed towards you. The secret of success is in the various pods/domes you'll find. They hide shops where you can stock up on weapons. Your ship will only carry so much though, and certain combinations won't do, so cunning choices have to made to stay in the game. There's a total of 32 weapons to choose from but you don't have instant access to them all. Scattered throughout the hostile enemy levels you'll find various bonus pods that have to be collected to buy better equipment.

And boy are you going to need those upgrades! The enemy fighters move F.A.S.T. Quite often it's better to dodge the on-coming traffic than stand and fight it. Scooch down to the bottom of the screen, pausing to get a look at your reflection, and then speeding straight up to the top again will get you out of many a scrape. But, be careful! Space between the backgrounds and sprites is very tight. If you keep your head and make it to the end of the level you'll find the big boys waiting. Gigantic guardians hang around and block your path onward. Apart from being deadly they possess fantastic detail, like steam and moving parts, animated to full effect.

Disposable Hero is a vital addition to the lagging CD 32 software library. If you don't buy it, I can't imagine what else you must be using your machine for!

86%



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Elite Plus
ZOOL
NINJA OF THE "NTH" DIMENSION
ELITE

Jimmy Whites Whirlwind Snooker
© 1991 Virgin Games Ltd.
Zool
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Sensible Soccer
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Elite
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Elite plus programming © Chris Sawyer.
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SENSIBLE SOCCER

efinitely, without the merest inkling of a suggestion of a shadow of a ost, the best football game ever."
Amiga Power - 93%

IMMY WHITES WHIRLWIND SNOOKER

pressive as the 3D is, it's only one aspect of a game chockfull of lliant features.
PC Review 9

ELITE-ELITE Plus

ite simply the most original game-play since the birth of computer ertainment. An all time classic.
PC Format.

ZOOL

ol conforms in every way to what you'd expect from a perfect cutesy tform game. And in doing so has become the perfect platform game... you like all things cute and colourful, you'll love this, and if you aren't isposed to platform games you'll still love it."
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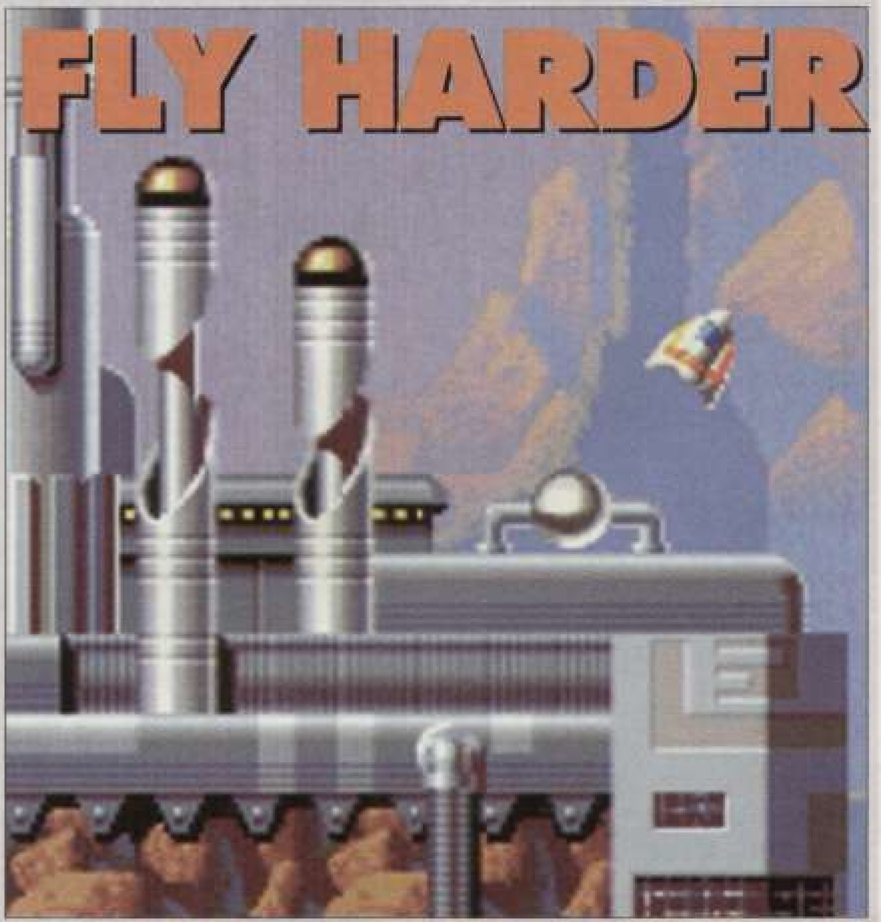
FLY HARDER



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If you were still in nursery school when *Thrust* was released, I will give you a quick refresher on the finer points of the new game *Fly Harder*. The idea of the game is to pick up shiny silver balls and drop them on a large reactor, found somewhere else on the same level. Your ship has a single jet engine, which it can fire in any direction to combat the ever present gravity (hence 'thrust" for the lower IQ levelled readers). There are more than enough things to crash into, including other ships, and plenty of ground material. The clever thing here is that you have an energy bar on the top of the screen that goes down as you pass through other objects like some sort of shield.

Thankfully, you have a gun to disperse the enemy with, but don`t get too carried away flying around the screen as you also have a limited supply of fuel, indicated by another bar on top of the screen. To help you out in the game, you are will find fuel pods and energy pods to replenish your spent stocks and, albeit slowly, energy does replenish itself.

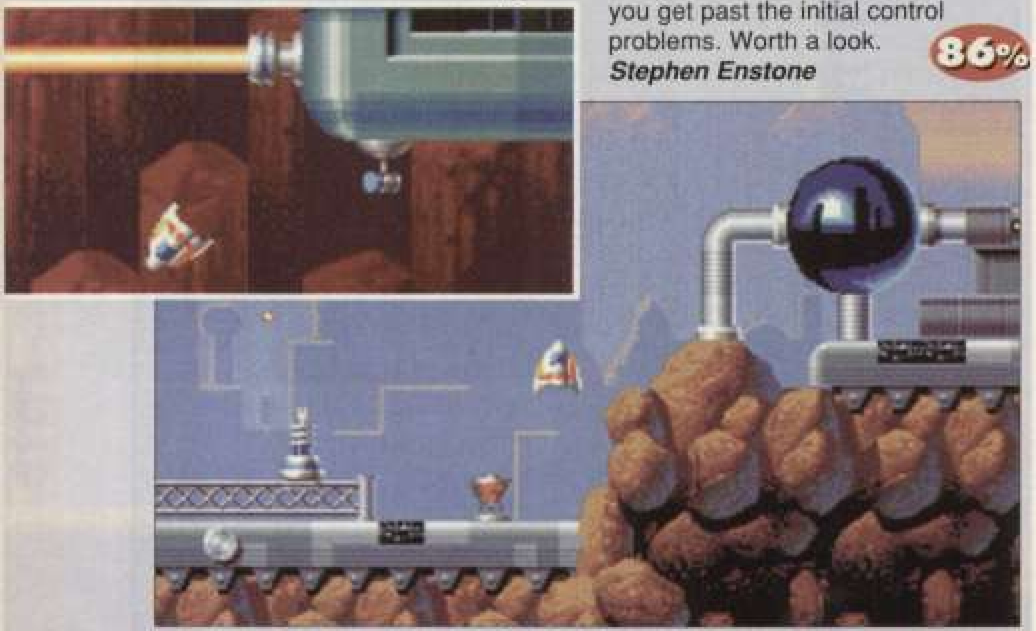
The first thing you notice about the game is how hard it is. Your ship flies all over the screen crashing into everything, as you try to get the thruster firing in the right direction and gain some sort of 'it goes where you want it to go' control. After a while though, you begin to get proper movement and in no time at all you realise how good *Fly Harder* is, as long as you don't get too frustrated.

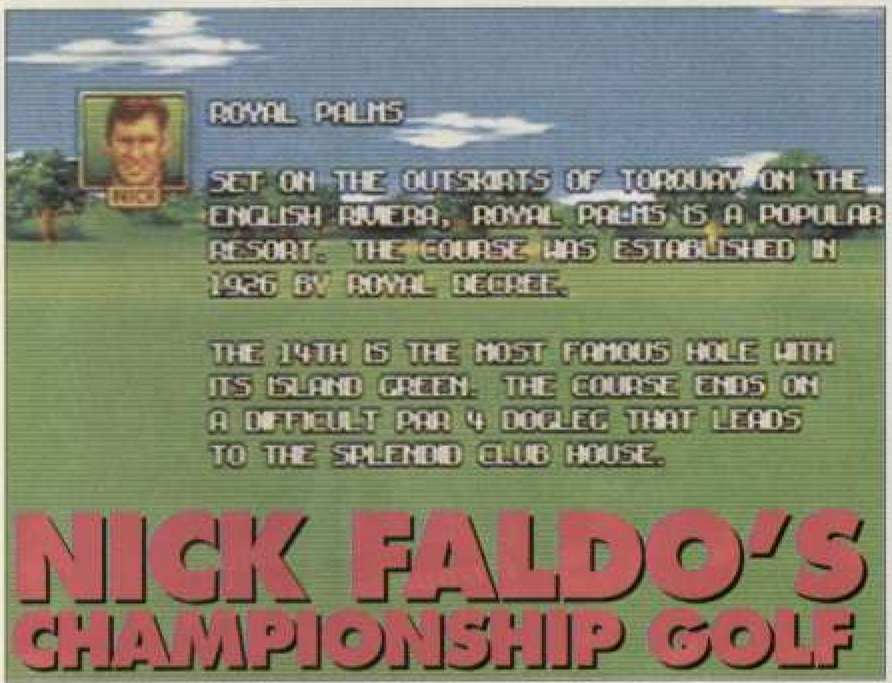
Fly Harder is a very addictive game. Once you've made it through a few levels all you want is more – even if gravity is coming from all directions and a very annoying laser beam tends to use up your 4 lives before you can say "hang on a second, I was past that extremely nasty looking laser beam".

Fly Harder is a fine title once you get past the initial control problems. Worth a look.

Stephen Enstone

86%





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NICK FALDO'S CHAMPIONSHIP GOLF

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And so the battle to create the most realistic and playable golf game ever continues, as *Nick Faldo's Championship Golf* works its merry way onto the CD32. On floppy machines, the game has already been a roaring success, replacing the polygon-based graphics of *Microprose Golf* with colourful, realistic trees and bunkers you could sunbathe in. They could have just done a straight port, but that wouldn't have been good enough for Grandslam. Instead, they've made a few not-so-subtle changes to the game for the CD market.

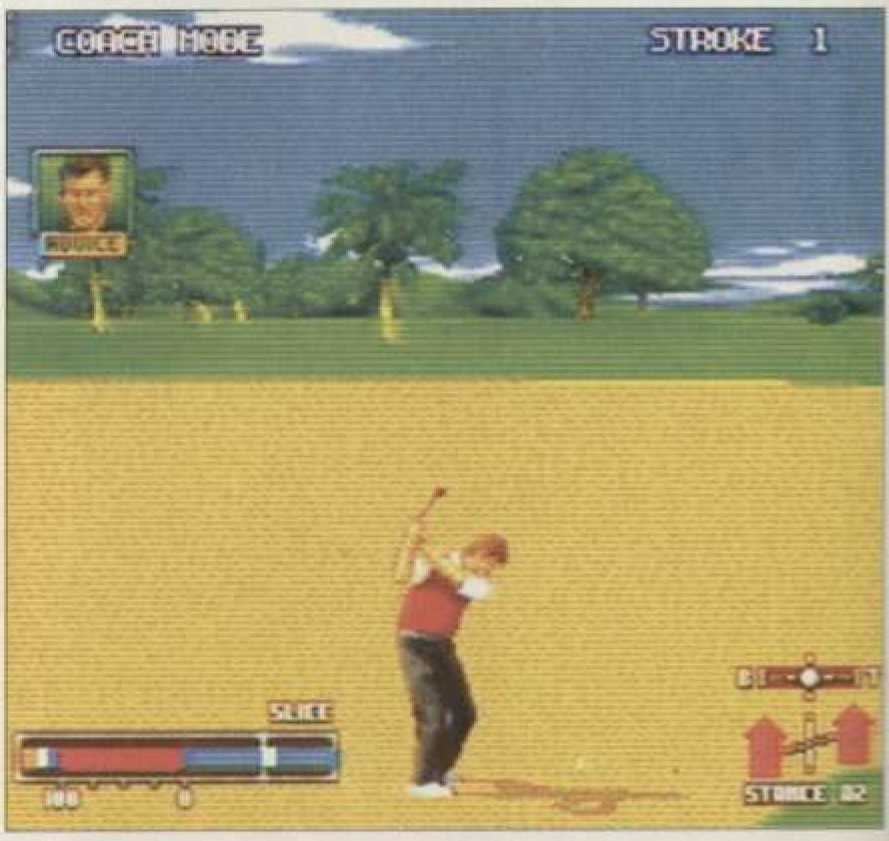
Firstly, the game plays in 256 colours now, rather than the 32 limit imposed on floppy versions. Although this might look great, it unfortunately leaves you in the position that it does take quite a long time to update the screen, and you are left waiting for seconds while the game decides to do next. This doesn't just happen during the game, either. Selecting an option on the menu screen is a case of highlighting an option, and then sitting around waiting for the machine to realise you've made a choice.

One major positive change is the restyled power bar. The original required all sorts of tricky button presses and high speed reactions, whereas this has a more standard 'press the button at one end of the bar to set power, and the other end to set hook/slice'. As a result, it's much easier for the beginner to actually play some decent shots, although the game itself is as hard as ever. You'll still find yourself going into the rough on every other shot, and the bunkers are as tricky as ever to get out of, but hey, that's golf for you.

It's a very competent golf game, that will last you a long time. My only complaint is the speed of the update, but then golf is supposed to be leisurely!

Tony Dillon

83%



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FMV: just an excuse to use film stars in your favourite Amiga mag.

THE FIRST FMV FILMS

Take a CD32, plug in an FMV module and movies on CD are yours. But are these movies as good as traditional VHS, and how do they compare to LaserDisc? Andy Leaning grabs the popcorn, talks loudly and snogs in the back row as he seeks out new movie frontiers.

If you've got a CD32 you're probably thinking about upgrading it with the FMV module. But the question you'll want answered before you spend any money is: are the films, movies and pop videos you can watch on it actually any good? After all, what's the point in spending your money buying new technology if the results aren't as good as your existing video?

To answer this question we took four of the five films currently available and spent a day watching them (as far away from Lisa's ruler as possible). The films we chose, *Patriot Games, Top Gun, Star Trek VI* and *Black Rain*, cover a wide variety of tastes, including science fiction, drama, and action. These CD films are all finished titles, and are available now in PAL format.

Video CDs come in normal size CD jewel cases, but are actually double albums, ie they contain two CDs. The reason for this is that each Video CD can only hold 72 minutes of film and sound,while the average length of a film is over 110 minutes – hence two CDs. And before anyone raises questions about it being inconvenient having two CDs, I'll point out that LaserDiscs (the numero uno format for home film buffs) have been using two discs for a long time and it has proved a popular system.

We studied the films on a state-of-the-art 29" Sony S29 TV with a Dennon AVC-3200 ProLogic amplifier. This allowed us to try out the sound and test the picture quality.

The various films were all similar, with good colour quality and stable picture reception. There weren't any of the tracking problems, saturated colour or noise often associated with videos.

One problem, however, was that in moments of intense activity on screen some of the fine detail of the picture was lost and the squares that make up the signal became visible. This happened in *Black Rain*. With MPEG encoding process this loss of picture quality is normally counteracted by softening the picture and taking the edge off the squares, making them less visible.However, the little squares were was still there in some places in parts of *Black Rain*.

Also, occasionally, (in *Top Gun*) where there is a lot vertical movement there was a slight jerkiness in overall picture movement. Whether this is the result of the MPEG encoding (see CU Amiga March '94) or poor NTSC to PAL conversion remains to be seen.

JARGON BUSTERS

- **PAL: The definition of the TV signal for UK TV systems.**
- **NTSC: PAL for American TVs. Films in NTSC format cannot be played on UK hardware without conversion and vice-versa.**
- **MPEG: VideoCD/FMV films are normal films that have been converted and compressed to allow them to be stored on CD. This compression and storing was defined and created by a group of propeller heads on a committee called 'Motion Picture Experts Group' or MPEG. For further details on MPEG coding see CU AMIGA March '94.**
- **Laser Disc: A large version of compact discs used for storing films.**
- **Dolby Pro Logic: A specification for sound that's superior to normal stereo, created by Dolby Labs. ProLogic sound uses four and five speakers, rather than the normal two. Placing four or more speakers around the room room ensures the sound 'surrounds' you, giving a more realistic audio experience.**

Errk got fra gevam ek stad?
("Should I buy an FMV module?")

SWEET MUSIC

All of the four films feature not just stereo sound of CD quality, but also Dolby Surround Sound. So, linking your CD32 to a Hi-Fi when watching these films will give you an experience far beyond normal VHS. Whilst normal VHS will give you stereo sound, the clarity and depth of the sound from these discs leaves VHS sound for dead.

And if you happen to have a ProLogic amplifier and speakers you'll never need to go to the cinema again! Dolby ProLogic is a system of encoding extra audio information into the normal stereo signal. When played back via a ProLogic amplifier, connected to four or five speakers, the information is decoded and the sound is distributed to the speakers (which are placed in front and behind you) giving the effect of the sound coming from all around you. In all four movies that we tested, the results are simply stunning. Now all we need is for Amiga games developers to get hold of this idea and start encoding Surround Sound in CD32 games!!!

IT'S A KNOCKOUT

Films on CD – great concept, great implementation. For picture quality these CDs easily rival video, for sound there's simply no competition, they walk all over VHS. Whilst the occasional loss of fine picture detail means they aren't yet up to the standards of LaserDisc, VideoCD film is much better than normal VHS video. I'll certainly be switching to Video CD in future. CU

SCREEN SCENE

Now that your easter-egg laden stomach is forcing the sofa through the floor, you need some exercise. How about picking up your joystick and going for a run through our complete games guide.

- 58 DIGGERS 2
- 61 CLUB FOOTBALL - THE MANAGER
- 62 ROBINSON'S REQUIEM
- 66 K240
- 68 HEIMDALL 2
- 71 INNOCENT UNTIL CAUGHT
- 79 CLUB FOOTBALL COMPO
- 80 APOCALYPSE
- 84 GOLDEN JOYSTICK AWARDS FORM
- 87 VFM -
  - JAGUAR XJ220
  - PREMIERE
  - THUNDERHAWK
  - EYE OF THE BEHOLDER
  - WING COMMANDER
- 94 VAMPYRA

A CU Screen Star is for games scoring 85%-92%. If a game gets one of these, it'll be of lasting quality and you can rest assured that, if you decide to purchase it, you won't be wasting your money.

AMIGA
SCREEN STAR

SUPER STAR

93% and a game's worth a Superstar. We hardly throw them around, but if a game gets one it'll be completely outstanding.

FIRST IMPR

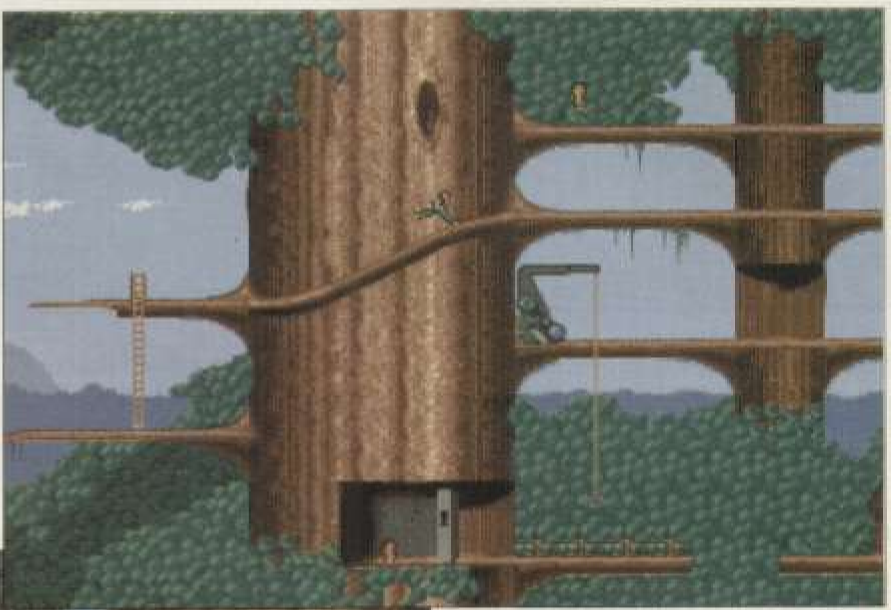
"Is this a dagger I see before me?" No, Julius me old mate, it's the most stop pressingest, up to datest, fastest preview section around.

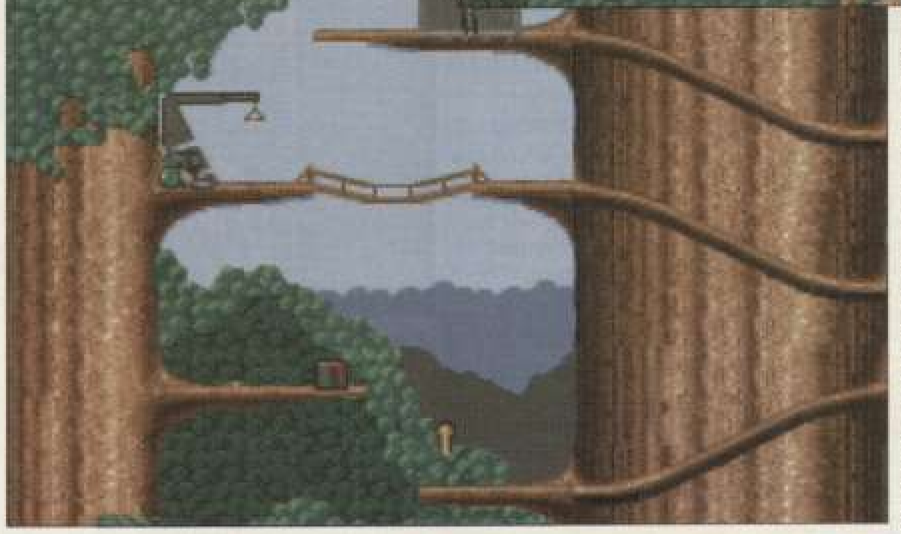
BENEFACTOR

PSYGNOSIS

THE GAMEPLAY: The obvious comparison is *Flashback* with smaller sprites. Quite what the plot is exactly about is anyone's guess, but you have to travel around enormous levels collecting keys and rescuing small creatures. Some are intelligent, some are not, all have to be dropped into a funnel. Sounds simple enough to us!

WHAT'S NEW: At the moment, nothing in particular. It seems to take the small sprite and character from Lemmings and the fiendish level design from the more complex end of strategy games and combine them in a way that looks like it will keep people playing for months.





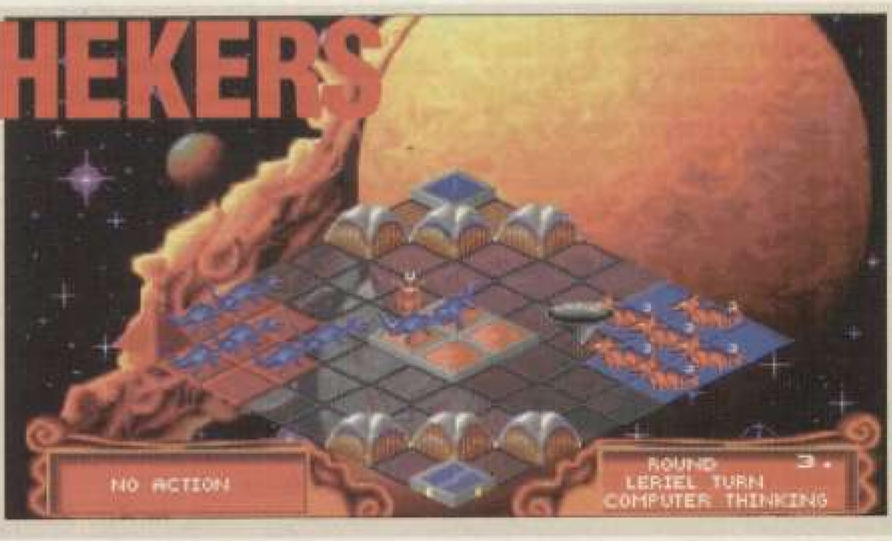
BEHIND THE SCENES: The game has been coded and designed by Digital Illusions, the mob who pieced together the fabulous *Pinball Fantasies* and *Pinball Dreams*. We are assured that there will be no pinball in this game whatsoever. The bullets don't half move in a convincing way, though.

FIRST IMPRESSIONS: It looks like it will be a lot of fun. We've had a good play around on a few levels to date, and they have proven to be fun and taxing. It will take a few goes before you really start to suss out the strategies in the game, but then there is an old maxim that says, 'The more you put in, the more you get out!'

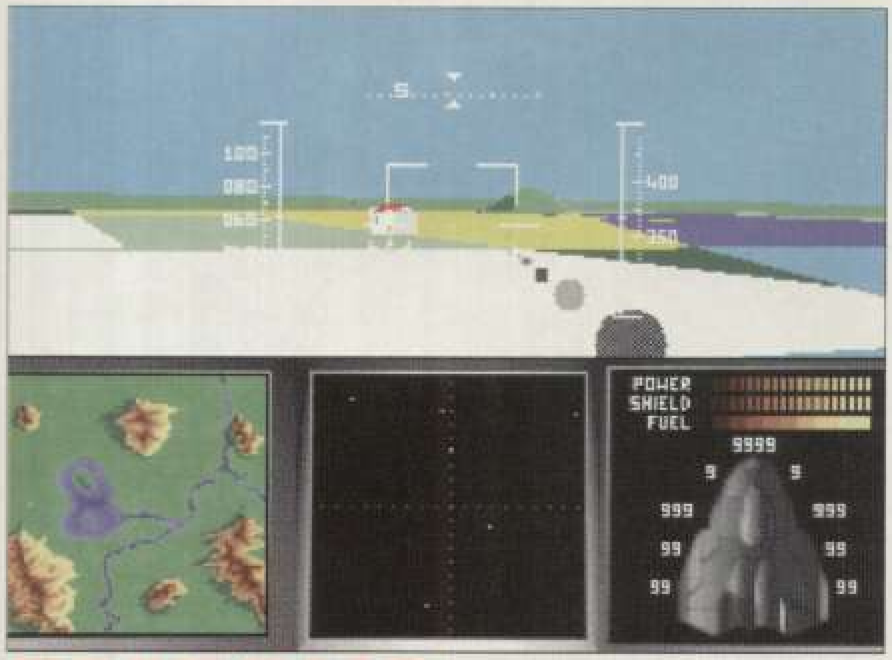
SPACE CHEKERS

BLACK LEGEND

THE GAMEPLAY: An updated version of the old family favourite *Draughts*, this involves up to four armies storming across an isometric board, leap frogging each other to hopefully end up in the opposing corner. The boardgame is broken up with arcade sequences whenever opponents meet over certain tiles. The winner is the person who gets all their pieces into the correct corner first. That's about it!



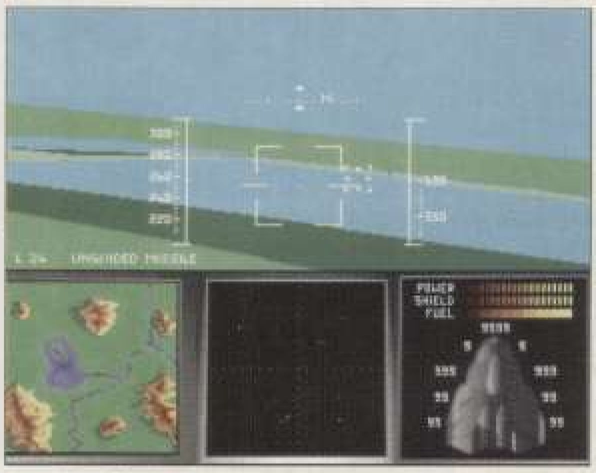
ESSIONS



EMBRYO

BLACK LEGEND

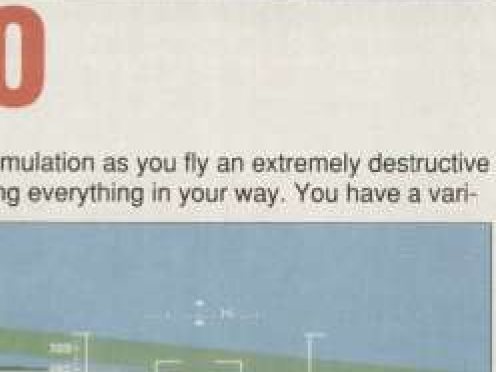
THE GAMEPLAY: A 3D blasting simulation as you fly an extremely destructive aircraft over land and sea, exploding everything in your way. You have a variety of weapons at your disposal, and more than enough enemy units to pose a real challenge.



WHAT'S NEW: It's certainly fast, and slightly reminiscent of the Ocean/DID classic *EPIC*. The 3D is convincing enough, but until the palettes are sorted out, I can't comment on how good the game looks.

BEHIND THE SCENES: This is the first game from Croatian programmers CroTeam. If there's one thing Black Legend like doing, it's taking programming teams from remote locations and breaking them into the open.

FIRST IMPRESSIONS: It looks great! An easy to play simulation with almost no emphasis on realism and plenty of emphasis on death and destruction. Between this and Guardian, you'll never have to think about the things you kill again!



WHAT'S NEW: The way the game has been coded. The team responsible, Antares, have coded their own programming language – SECAL, which they claim is a hybrid of assembly and C, and actually runs as fast as assembly. What's more, this wonderful language will be available later in the year!

BEHIND THE SCENES: Antares are a new French company, who have spent their time so far revising and re-revising SECAL. *Space Chekers* is their first game.

FIRST IMPRESSIONS: It looks like it could be an involving strategy game. At the moment Black Legend are debating whether to release it on its own or drop it in a double pack, so we can't comment on the kind of value it will have, but we will have a full review next issue.

STREET SELF DEFENCE

The most effective street fighting techniques revealed by a top professional 'bouncer'

Top professional bouncer Paul Wellard has been attacked by fists, boots, pool cues and knives. He has learned a thing or two about what goes down in a real fight. As a 2nd Dan Karate Black Belt he has also learned that martial arts training is useful in a brawl, *but it is no substitute for real street fighting "know how"*. An active participant in dozens of fights where brawling is quick, dirty and very violent, Wellard has compiled a unique guide to self defence.

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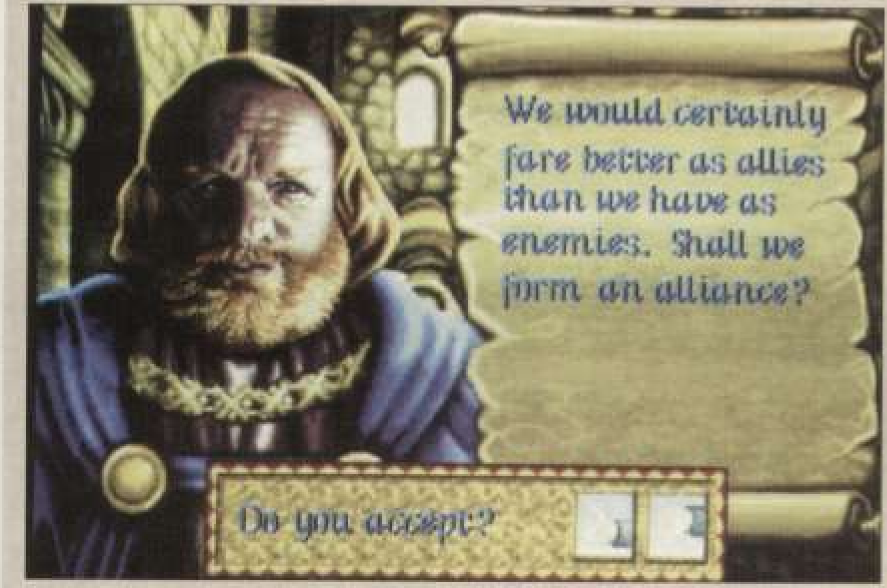
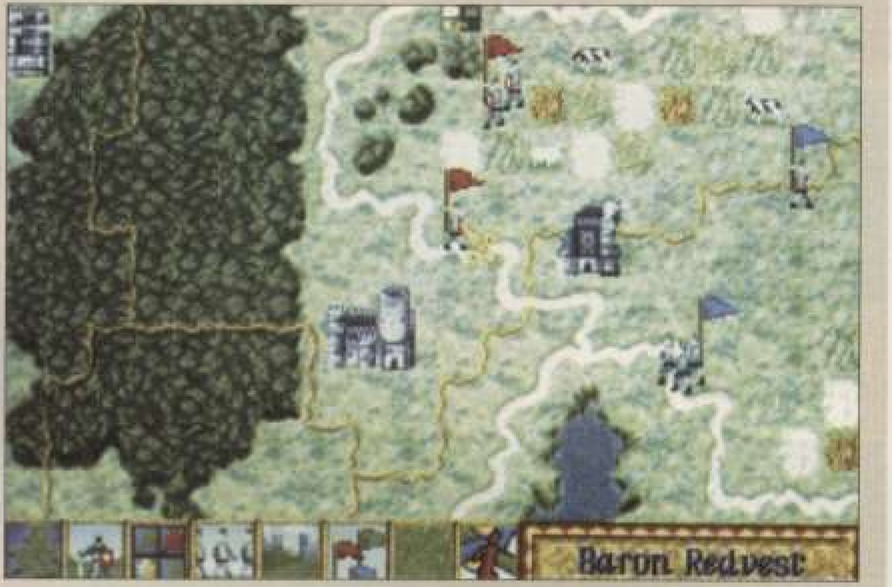
LORDS OF THE REALM


We would certainly fare better as allies than we have as enemies. Shall we form an alliance?

Do you accept?



IMPRESSIONS

THE GAMEPLAY: It's a *Defender Of The Crown* style strategy game, where players have to slowly move across the counties of England, Scotland and Wales, taking land wherever they can with the aim of becoming King of all Great Britain. Obviously there are computer players all trying to do the same thing, so you're going to spend a lot of time defending the land you've already got before you can really start to spread yourself.

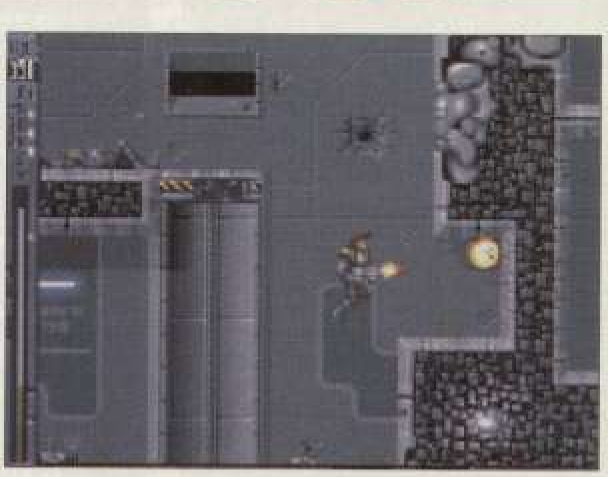
WHAT'S NEW: Impossible to say at this stage, although the inclusion of the first ever siege simulation looks like it could be interesting. If you find sitting outside a large building for days on end interesting, that is.

BEHIND THE SCENES: The game has been produced in house, but I can't see Edward Grabowski's name anywhere.

FIRST IMPRESSIONS: *Defender Of The Crown* has been ripe for an overhaul for quite some time now, so this could be one hell of a game. Modem play and turn-based multiple players adds a lot to the game, though it remains to be seen if the game will be worth playing.

HARD CORE

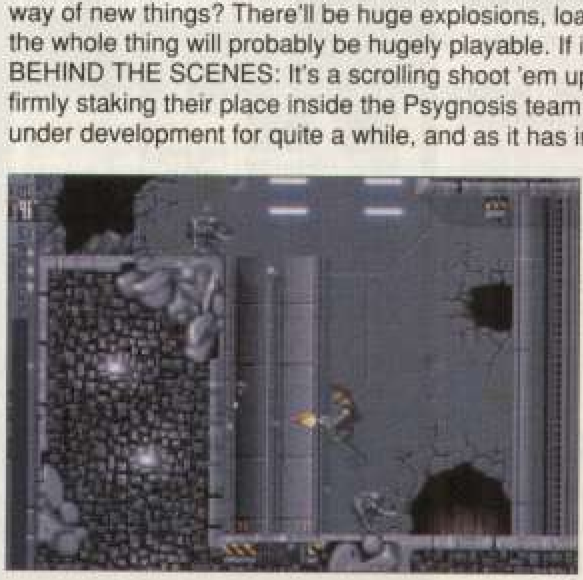
PSYGNOSIS



THE GAMEPLAY: It's a scrolling shoot 'em up. Run around the enormous complex levels, shooting everything you come across, hunting for the switch that will open the door at the end of the level. Millions of aliens and robots fly around the corridors firing at all times, and you've only got a limited supply of bullets. Help!

WHAT'S NEW: It's a scrolling shoot 'em up. What can you really expect in the way of new things? There'll be huge explosions, loads of death and gore and the whole thing will probably be hugely playable. If it isn't broken, don't fix it.

BEHIND THE SCENES: It's a scrolling shoot 'em up coded by Digital Illusions, firmly staking their place inside the Psygnosis team cuddle. This has been under development for quite a while, and as it has improved, the likelihood of an A500 version becomes more and more doubtful.



FIRST IMPRESSIONS: It's a scrolling shoot 'em up. A very playable one, nonetheless, but it's still a shoot em up that scrolls. We predict that when it is finished, people who like scrolling shoot em ups will want to play it. What more can we say?

EMPIRE SOCCER

EMPIRE

empire SOCCER94
World Cup
Options

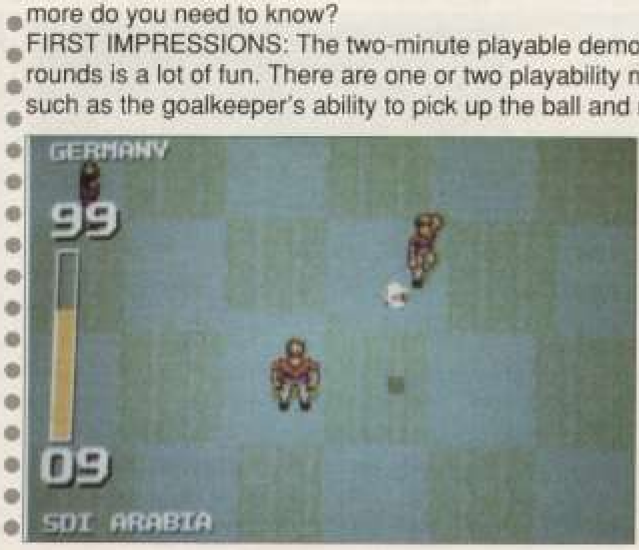
THE GAMEPLAY: An arcade football game in the *Microprose Soccer/Kick Off* mould, this takes a top view, pushes it to one side slightly, and lets 22 digital players out onto the pitch.

Kick the ball around, score more goals than the opposition and then do jacuzzi impersonations in the bath afterward.

WHAT'S NEW: The size of the sprites, more than anything else. Empire have gone for large sprites in this game, giving much more room for detail and character, but making it that little bit harder to tell where the other players are. Continuing in the character field, there are little caricatures of managers, players and referees that appear in small windows whenever anything happens. Tee hee.

BEHIND THE SCENES: The whole thing has been coded in house. What more do you need to know?

FIRST IMPRESSIONS: The two-minute playable demo currently doing the rounds is a lot of fun. There are one or two playability niggles at the moment, such as the goalkeeper's ability to pick up the ball and run to the opposition's goal with it, but the thing looks great (even though the players do have buns on their heads) and the non-serious approach it takes makes it a breath of fresh air when placed alongside *World Cup* this, *USA 94* that and all the other serious football games that keep cropping up.



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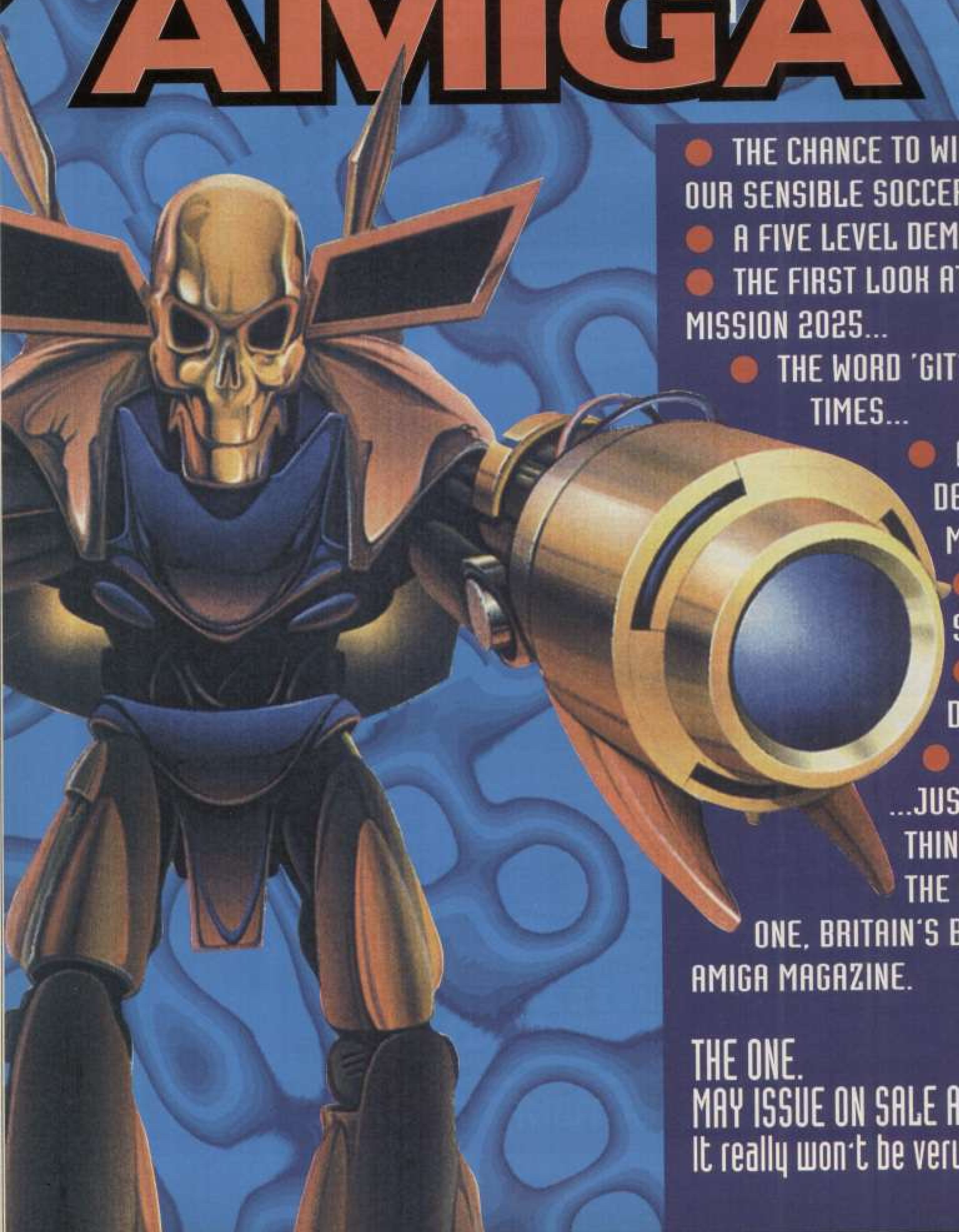

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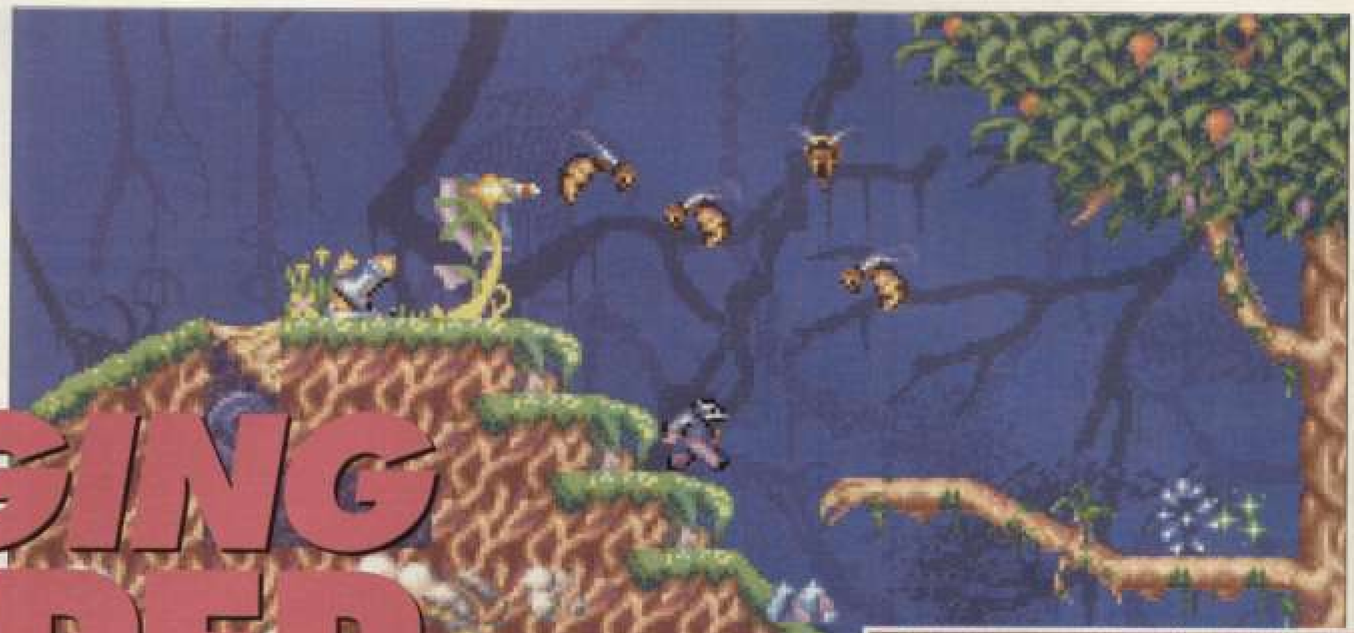
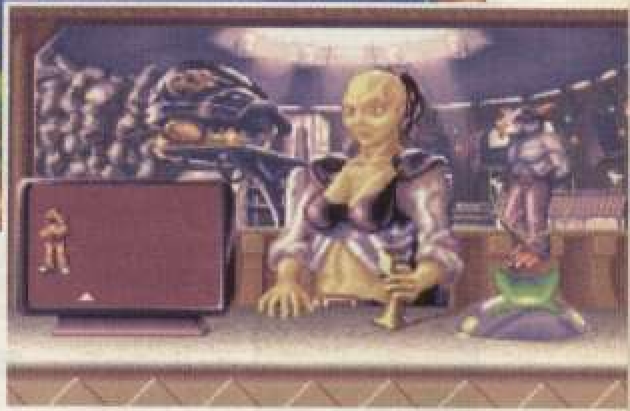
It really won't be very funny.

Toby Simpson is currently beavering away on a follow up to *Diggers*. CU AMIGA gets the first look.

DIGGING DEEPER





Toby Simpson has spent the last six months developing a game that can only really be described as bigger and better than the world's first true CD32 game.

"It's difficult to describe it as a sequel because I wouldn't," begins Toby from his Millennium office. "I would describe it as another game that happens to operate in the same world as *Diggers*. A sequel would imply a logical progression from the original game, which this isn't. It's a completely new storyline."

WAY OUT MAN

Diggers had a fairly 'way out there' plot. For this game, Toby's gone even further, creating a complete history for the game environment and then selecting this chapter for the actual game.

"If you look at this game as being the present day, then the original *Diggers* game happened about a 120 years ago, and the business leading up to this game started about 2,000 years ago when the rather peaceful, scientific, friendly good guys were getting attacked quite violently by the Quarian Empire, the big ugly green guys in *Diggers*.

"The Flinards weren't aggressive at all, only defending themselves, and so started losing a lot of their land. So they sat down in their labs and decided to try and work out a system. They finally invented this thing called the Flinargian Machine, which, much to the astonishment of the warriors laying siege to their capital city, ripped the whole city up into twenty four large chunks of land, and floated them several thousand feet into the sky, nicely out of harm's way since the planet Zarg had not invented much in the way of flying machines at the this point. And that's where the Flinards stayed.

"Only recently, the Zarg Mineral Trading Authority, who effectively run the planet are beginning to get a bit upset about the rising cost of mining the planet, purely because all the jewels near the surface have been mined. Thus they have to mine further and further down. What they really want is one of these flinard machines, because then all they have to do is bring the ground up to them."

HARD LIFE

There lies the story. The upshot of all this is that you have to travel from planetoid to planetoid in a small prototype flying machine. Toby has, of course, built in some problems. "Life is made a little more difficult by the fact that fuel efficiency wasn't top of the priority list on this trading authority ship, and in fact one of the biggest problems you've got is that you can only really do one journey at a time, so you need to mine enough fuel to get you from land to land. On top of that you've got the added problem of people like the privateers, an alien race who just appear – they know you're there, it's public knowledge – and they know you're going to be mining jewels. They can't be bothered to do it themselves, so they appear, steal everything in sight,and then run off again."

WHAT DOES IT LOOK LIKE?

You have to agree that it certainly looks a lot better than *Diggers*. Some would say that Diggers looked a little flat and uninteresting, something Toby has taken to heart."From a display point of view, this is much, much more colourful. We have in excess of 300 colours on the main game screen at any given time. This game uses 256 colours for all its base graphics, and all the panels and stuff like that have their own palettes, plus the background sprites and the sky also have their own colours. Which looks quite pretty. All of the real graphics are being put in now, all of the animations and graphics for the shop are present, and it really looks nice. There's this two headed creature that works in the shop who looks really weird, twitching and swinging his head round – it's really good!"

BIG IS BEST

If you still aren't drooling with excitement, this will help.

"Let me tell you something about the size", enthuses Toby. "There are 24 levels, and each level has at least 70 full screens, so there are 1680 screens in the game, apart from the 25th level, the Flanargian Capital which is something really special. That is quite unique, as any players who get that far will discover.

"There are four different terrain types, which are very, very different. In the original *Diggers* game, there was a little difference in style between the terrain types, but perhaps not that much really. It just looked a bit different. In this game, they are dramatically different".

As far as I was concerned, the problem with *Diggers* was that it was aimless, something Toby is keen to rectify. "You have much more interaction with the map itself, because the primary aim of the game is no longer just to dig. Digging is a side thing, something you will have to engage in order to complete your actual mission which is to de-activate the machine and find enough fuel to carry on.

"With this in mind, the maps have been designed by placing the fuel and the machine at opposite ends, effectively forcing the player to go through certain areas, which means that we can spend a lot more time designing really beautiful maps that we know the player will see.

"One of the things we had in *Diggers* was that we designed some really stunning maps which players never saw because they learnt they could walk onto the screen, do a bit of digging, and then move onto the next level, which potentially got a bit repetitive. The player wasn't seeing all the things we'd laid out, because they didn't maybe need to."

It's sounding good so far but is still a few months off completion. You'll just have to shoulder your spade and wait.

Robinson's Requiem is almost upon us, and Tony Dillon takes a little time out with French coders Silmarils to discover exactly why the game looks so special.

LOOK AT IT THIS WAY

WIP

Variety is the spice of life, as they say, and it's games like *Robinson's Requiem* that really set the reviewer's heart pounding. If you haven't read anything about it, you won't know that it's a survival simulation ie you are dumped on an island with very little resources and you have to survive the rigours of the wild until someone comes and rescues you.

Robinson's Requiem is a marked step away from the *Ishar* series of games that Silmarils are so well known for, it is one of a new kind of game – a game that isn't so much fun to play, but is a lot more involving than most others.

"Robinson's Requiem is set in a 3D universe, in real time," explains Silmarils' Louis Marie .

"Scenery is displayed using a technique similar to Voxel technology (such as that found in *Comanche Maximum Overkill*). Here, the images are created within the computer's chip memory in real time, as opposed to being preprogrammed graphic images. Backgrounds are generated depending entirely on the player's point of view"

ZUT

If you've ever seen *Comanche*, you'll know that phrases like 'photorealistic' are the order of the day.

"Silmarils have improved on this technique greatly to create an unusual feeling of realism. The scenery includes mapped textures and has been calculated using interpolation of altitudes. The startling effect of this is that, for instance, the grass on the ground looks different from the player's point of view, depending on whether you are close to the ground, or higher up.

"Lighting and shading are calculated according to distance, all of which enables the computer to display with remarkable detail and realism the relief of the landscape and the features in it."

ALORS

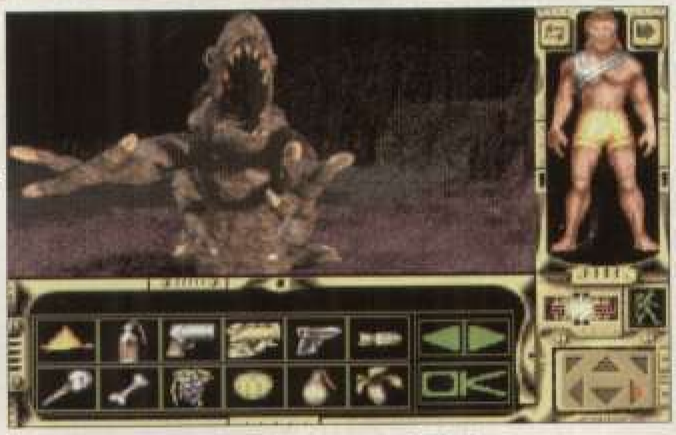
Surely it can't all be generated in real time, can it? The A1200 just doesn't have the processing power.

"The sprites in the scenery (ie, trees, bushes, objects etc) have been created using 3D Studio in synthesis images. They are truly 3D, since they have been precalculated at every angle of vision. They are displayed by the computer according to the angle of vision of the player and zoomed according to their depth in the image.

"The enemies in *Robinson*'s are awesome. They are not only ray traced, and calculated in 3D synthesis, but are also animated in 3D from all angles of vision," says Louis.

Still screenshots are never going to be able to show just how impressive looking this game is. There are many that have said that the bitmap image has had its day, and that *Ishar 2* is as far as that look can go. They might be right, which would explain the step towards more advanced imaging systems.

"All of these techniques are markedly different from the graphics used in *Ishar 3*. In the Ishar series the scenery is bit mapped. The effect here is very different. The textures and colours are very rich, but there is no relief texture mapping or shading. (A new feature in *Ishar 3* will be the scanned photographic images for the characters in the game)," replies Louis.



Sacre blue – what is that!

The closing question has to be: where is all this visual jiggery pokery leading? Louis concludes: "We have moved ahead in technology with *Robinson*'s because that is the direction in which Silmarils is going. We are designing games for more powerful hardware, and stretching the technology to its limits. Future RPG's from Silmarils will benefit from the techniques employed in *Robinson's*. We will continue to design for more powerful hardware such as 486, 3DO, CD32 and Jaguar"

We'll have a full review of *Robinson's Requiem* very soon.

CLUB TOGETHER

What do you get if you add all the football management games in the world together, and then strip out the rubbish. *Club Football – The Manager* apparently.

Oi, Oi what,a lively line up. Although the one in the middle looks like he is nodding off to sleep.

Football fans are about to undergo a landslide of Amiga games. Everyone under the sun, and I do mean everyone, is developing something to do with those 90-minute kickabouts. Some are doing the more standard form of arcade soccer (*Sensible Soccer*, basically), while others are trying their hands at something more cerebral. Imagine Home Entertainment, a new division of the well-known home entertainment company, are most definitely in the latter, bringing development team Teque and marketing team The Software Business along for the ride.

WE HAD JOY

Club Football - The Manager, as their first planned release is called, looks set to go completely against the grain of previous football management games, as game designer Keith Wadham is keen to point out. "Essentially, the problem has always been that with football management games, the person with the most money wins. If you can afford to buy the most expensive teams, then you can walk every match. Real life just isn't like that – some of the best players in the league started in the bottom divisions."

To get around this problem, Keith has come up with a secret little player statistic that tells the game, but not the player, just how intelligent your latest signing is, alongside all the other statistics such as passing, dribbling and so on. This is probably the most effective stat in the game, as it will make the difference between an average player and a great one, ie, one who merely does what they're told to and a player who uses real initiative. The intelligence also defines how quickly players can be trained and how effective all their other skills are. Just because a player has a shooting ability of 90, that doesn't mean that they'll be any better than a player with a shooting ability of 50. It's the intelligence factor that makes the player look for the goalkeeper's weakest spot.

WE HAD FUN

Another area of the game that has been heavily worked on is the tactics side of things – a side that has generally been sorely neglected in the past. Usually, all the player has to say as far as tactics go is the formation the team play in.

Club Football - The Manager goes much, much further. Each player is assigned a 'footprint', the area they effectively play in. This, linked with their intelligence helps you subtly alter the way your team plays. A player with limited intelligence will stand on the spot, whereas a player with brains will move around and form part of the attack, while staying in their designated zone. The trick to winning is to collect a team that gels together properly. There's no point having a team that cost you millions if you can't get them to co-ordinate.

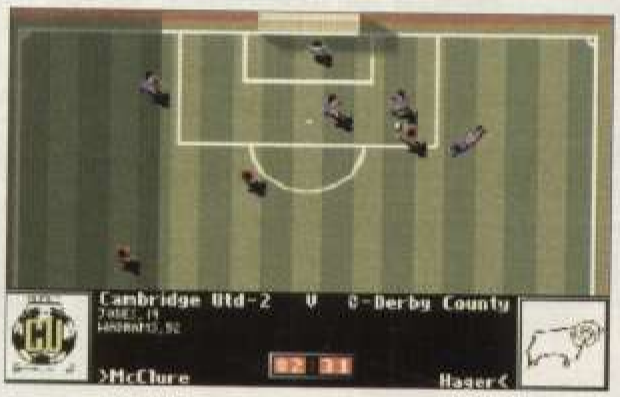
WE HAD...

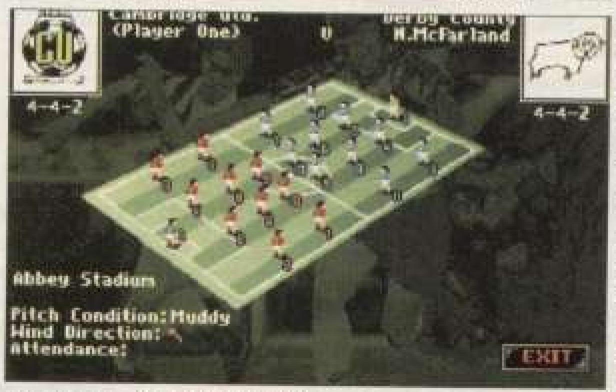
Players of games like *Premier Manager* might be a little worried at this point. Most football management sims are biased quite heavily toward the business side of things, giving you a double role as manager and accountant, and yet I've made no mention of finances at all so far. Don't run away crying, you will be able to juggle figures if you want, but it doesn't make or break the team.

All the variables will be set in a neutral way – you'll make money, but you won't make millions, and if you like you can leave them to run on automatic. You can take on the business end of the game if you want, and you can conceivably put yourself in a far better position, but you don't actually have to.

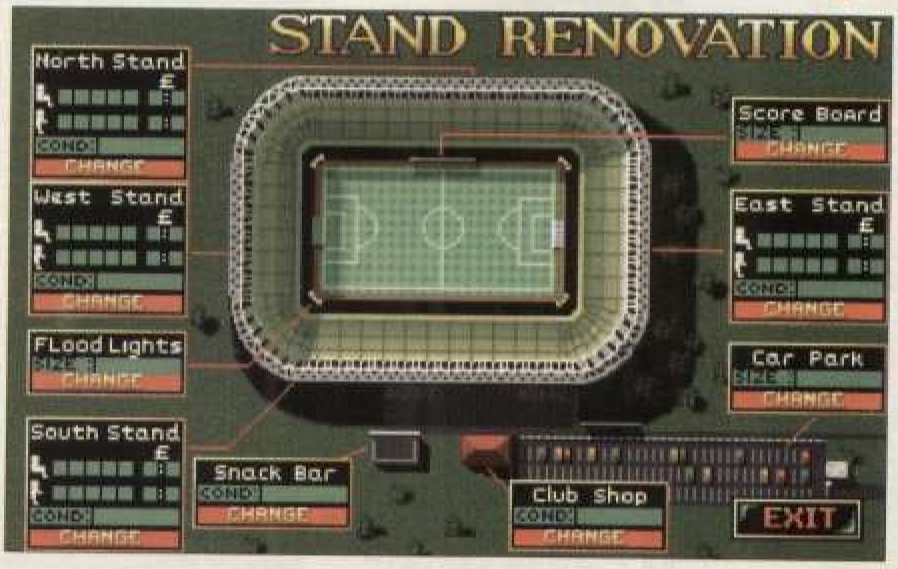
At the moment the game is about a month from completion, and already we're very impressed with what we've seen.

If this game ends up playing as well as it sounds, then Imagine will have a real hit on their hands.



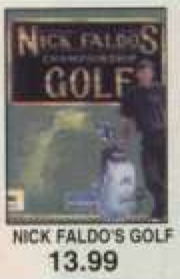


The stadium – where it all happens.



Now – where is the best seat to see all the action and tip top football?

• Special Reserve - The Discount Club •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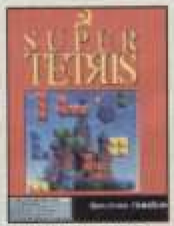
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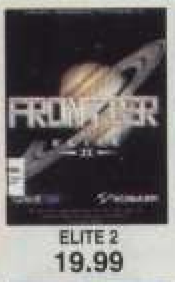
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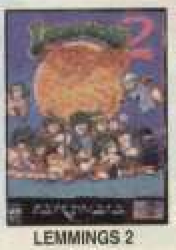
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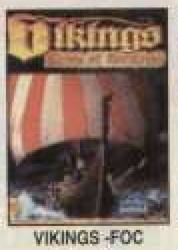
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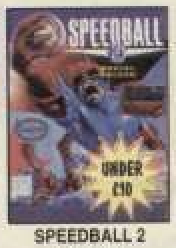
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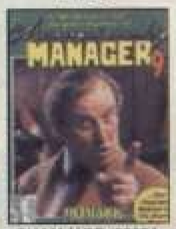
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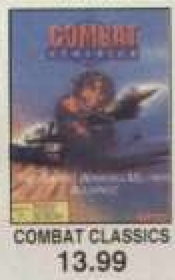
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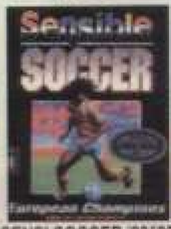
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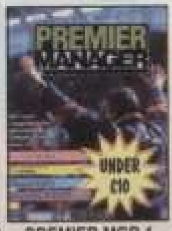
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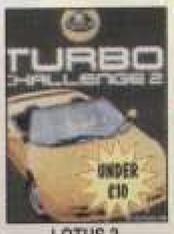
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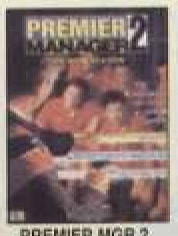
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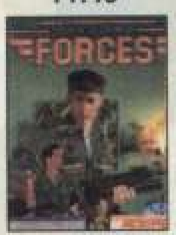
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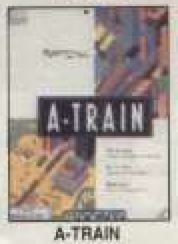
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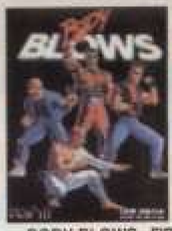
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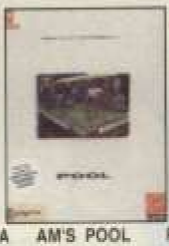
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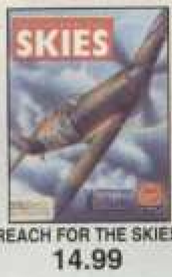
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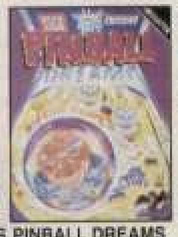
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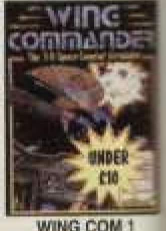
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SHADOW OF THE BEAST 2 (WITH T-SHIRT)	11.99
SHADOWLANDS	9.49
SHADOWORLDS (NO12)	6.99
SIERRA SOCCER (WORLD CUP EDITION) (1 MEG) •	17.49
SILENT SERVICE 2 (1 MEG)	12.49
SIM CITY DELUXE (SIM CITY, FUTURE CITIES & TERRAIN EDITOR)	19.99
SIM CITY/LEMMINGS (NO12)	19.49
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SKID MARKS (1 MEG)	18.49
SLEEPWALKER	20.99
SMASH TV	7.99
SOCCER KID	18.99
SPACE HULK	22.99
SPACE QUEST 1 •	13.49
SPECIAL FORCES (1 MEG)	10.99
SPEEDBALL 2	8.99
SPIRIT OF EXCALIBUR (1 MEG) (NOP)	9.49
SPORTS MASTERS (PGA GOLF, INDY 500, ADVANTAGE TENNIS, EUROPEAN CHAMPIONSHIP'S 1992) (1 MEG) (NO12)	13.99
STARDUST	12.49
STREETFIGHTER 2	11.49
STUNT CAR RACER (NO12)	7.99
SUPER CARS 2 (NOP)	9.49
SUPER FROG (1 MEG)	16.99
SUPER HANG ON	7.99
SUPER SPACE INVADERS	9.49
SUPER TETRIS	12.99
SURBURBAN COMMANDO	17.99
SWIV (NOP)	8.99
SYNDICATE (1 MEG)	22.49
T2 (COIN OP) (1 MEG)	20.49
TEAM 17 COLLECTION (BODY BLOWS, SUPER FROG, OVERDRIVE) •	26.99
TETRIS - 7 COLOURS •	16.99
THE BLUE & THE GREY (1 MEG)	21.49
THE GREATEST (JIMMY WHITES, LURE OF THE TEMPTRESS, DUNE) (1 MEG) •	13.99
THEATRE OF DEATH	20.49
THUNDERHAWK	9.49
TITUS THE FOX	9.49
TORNADO (1 MEG)	24.99
TROJAN - ALIEX (LIGHT PHAZER GAME)	7.49
TROJAN - FIRESTAR (LIGHT PHAZER GAME)	7.49
TURRICAN 2	7.99
TURRICAN 3 (1 MEG)	17.99
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ULTIMA 5 (NO12)	7.99
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VIKINGS - FIELD OF CONQUEST (1 MEG)	11.49
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WALKER	18.49
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WHEELS OF FIRE (HARD DRIVIN', POWERDRIFT, CHASE H.Q, TURBO OUTRUN) (NO12)	14.99
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WING COMMANDER 1 (1 MEG)	9.99
WINTER GOLD •	12.49
WINTER OLYMPICS	21.49
WIZ 'N' LIZ	20.49
WIZ-KID	10.99
WONDERDOG	16.99
WWF WRESTLING (NO12)	4.99
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XENON 2 MEGABLAST	8.49
XMAS LEMMINGS	12.99
YO JOE!	18.49
ZAK MCKRACKEN (NO12)	10.49
ZOOL (1 MEG)	12.49
ZOOL 2 (1 MEG)	16.99

MASSIVE CONSOLE SALE
SEE PAGE 89 FOR DETAILS

AMIGA EDUCATIONAL SOFTWARE

Take a look at our huge range of educational software. The latest and greatest titles are listed here from major software houses like Europress, LCL, Ten out of Ten and The Jumping Bean Company.

10 OUT OF 10 - DINOSAURS (1 MB, ALL AGES, DISCOVER ALL ABOUT DINOSAURS THE FUN WAY)	18.99
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10 OUT OF 10 - ENGLISH (1 MB, AGES 6-16, COVERS MAJOR AREAS OF THE NATIONAL CURRICULUM)	18.99
10 OUT OF 10 - FRENCH (1 MB, AGES 8-16, COVERS MAJOR AREAS OF NATIONAL CURRICULUM ATTAINMENT TARGETS 3&4)	18.99
10 OUT OF 10 - JUNIOR ESSENTIALS (1 MB, AGES 5-11, BUILDING FOUNDATIONS FOR MANY AREAS OF THE NATIONAL CURRICULUM)	18.99
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10 OUT OF 10 - MATHS NUMBERS (1 MB, AGES 6-16, COVERS MAJOR AREAS OF NATIONAL CURRICULUM)	18.99
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ADI FRENCH (12-13 YRS)	17.99
ADI FRENCH (13-14 YRS)	17.99
ADI GCSE ENGLISH PACK(14-16 YEARS), 1 MB, DOUBLE AGE GROUP PACK, THE PERFECT GCSE REVISION TOOL	22.99
ADI GCSE FRENCH PACK (14-16 YEARS), 1 MB, DOUBLE AGE GROUP PACK, THE PERFECT GCSE REVISION TOOL	22.99
ADI GCSE MATHS PACK (14-16 YEARS), 1 MB, DOUBLE AGE GROUP PACK, THE PERFECT GCSE REVISION TOOL	22.99
ADI JUNIOR COUNTING (6-7 YRS)	14.99
ADI JUNIOR READING (4-5 YRS)	14.99
ADI JUNIOR READING (6-7 YRS)	14.99
ADI MATHS (11-12 YRS)	17.99
ADI MATHS (12-13 YRS)	17.99
ADI MATHS (13-14 YRS)	17.99
AMOS EASY (1 MB, FIRST STEPS TO PROGRAMMING)	22.99
FUN SCHOOL 3 (2-5 YRS)	14.99
FUN SCHOOL 3 (5-7 YRS)	14.99
FUN SCHOOL 3 (7+ YRS)	14.99
FUN SCHOOL 4 (2-5 YRS)	16.99
FUN SCHOOL 4 (5-7 YRS)	16.99
FUN SCHOOL 4 (7+ YRS)	16.99
FUN SCHOOL SPECIAL - MERLIN'S MATHS (7-11 YRS)	17.99
FUN SCHOOL SPECIAL - PAINT 'N CREATE EDUCATIONAL ART (5+ YRS)	17.99
FUN SCHOOL SPECIAL - SPELLING FAIR (7-13 YRS)	
MEGA MATHS (A' LEVEL COURSE)	
MICRO ENGLISH (8 YRS TO GCSE, CONFORMS TO NATIONAL CURRICULUM)	
MICRO FRENCH (BEGINNER TO GCSE, CONFORMS TO NATIONAL CURRICULUM), NOW FEATURES REAL SPEECH	
MICRO GERMAN (BEGINNER TO GCSE AND BUSINESS LEVEL, CONFORMS TO NATIONAL CURRICULUM), NOW FEATURES REAL SPEECH	
MICRO MATHS (11 YRS TO GCSE, CONFORMS TO NATIONAL CURRICULUM)	
MICRO SCIENCE (8 YRS TO GCSE, CONFORMS TO NATIONAL CURRICULUM) (1 MB)	
MICRO SPANISH (1 MB), BEGINNER TO GCSE, CONFORMS TO NATIONAL CURRICULUM	
NODDY'S BIG ADVENTURE (FOLLOW UP TO NODDY'S PLAYTIME)	
NODDY'S PLAYTIME (EDUCATIONAL PROGRAM FOR CHILDREN AGED 3+) (1 MB)	

AMIGA CD32 SOFTWARE

ALFRED CHICKEN	
ALIEN BREED 2 •	
ALIEN BREED S/E + QWAK	
ARABIAN NIGHTS (AGA)	
BATTLECHESS •	
BRUTAL FOOTBALL •	
BUBBA 'N' STIX •	
BUBBLE AND SQUEAK •	
CAPTIVE 2 - LIBERATION	
CASTLES 2	
CEASAR/COHORT 2 •	
CHAOS ENGINE	
CHUCK ROCK •	
DIGENERATION	
DENNIS	
DIZZY COLLECTION (DIZZY PRINCE OF YOLKFOLK, TREASURE ISLAND DIZZY, BUBBLE DIZZY, PANIC DIZZY, SPELLBOUND DIZZY, QUICKSNAX, FAST FOOD DIZZY, MAGICLAND DIZZY, FANTASY WORLD DIZZY, CRYSTAL KINGDOM DIZZY) •	
DONK	
ELITE 2	
FIRE AND ICE •	
FIRE FORCE •	
FLY HARDER	
FURY OF THE FURRIES •	
GLOBAL EFFECT •	
GUNSHIP 2000 •	
HEREWITH THE CLUES •	
HUMANS 1 & 2 •	
JAMES POND 3 - OPERATION STARFISH •	
JOHN BARNES	
JURASSIC PARK	
K240 (NAGA)	
LABYRINTH OF TIME	
LIONHEART	
LITIL DIVIL	
LOTUS TRILOGY (LOTUS 1, 2, 3)	
MEAN ARENA •	
MICROCOSM	
MORPH •	
NIGEL MANSELL'S WORLD CHAMP'SHIP	
NO SECOND PRIZE	
OVERKILL & LUNER-C	
PINBALL FANTASIES	
PINKIE •	
PIRATES GOLD	
PREMIERE •	
PROJECT X S/E + F17 CHALLENGE	
ROBOCOD (JAMES POND 2)	
RYDER CUP	
SEEK & DESTROY	
SENSIBLE SOCCER	
SKELETON KREW •	
SLEEPWALKER	
SUPER STARDUST •	
TFX (DUE JUNE '94)	
TRIVIAL PURSUIT •	
TURNING POINTS •	
ULTIMATE BODY BLOWS (BODY BLOWS & BODY BLOWS GALACTIC)	
URIDIUM 2	
WEMBLEY INTERNATIONAL SOCCER •	
ZOOL	
ZOOL 2	

LOTS MORE TITLES DUE FOR RELEASE SOON

• Special Reserve - The Discount Club •

COMMODORE AMIGA A1200 DESKTOP DYNAMITE PACK PLUS FOUR FREE GAMES

325.99
4 TOP GAMES WORTH OVER £100 FREE

AMIGA A1200 2/0 DYNAMITE+ 4 PACK
WITH WORDWORTH 2.0 AGA WORD PROCESSOR, DELUXE PAINT IV AGA, PRINT MANAGER, OSCAR AND DENNIS. COMPUTER WITH 2 MB RAM, 32 BIT 68020 14 MHz ETC. 1 YEAR IN-HOME SERVICE.
FREE ELITE 2, BATMAN, LEMMINGS 2 & CIVILISATION AGA SOFTWARE 325.99

A1200 DESKTOP DYNAMITE PACK AS ABOVE WITH INTERNAL 2.5" HARD DRIVES

A1200 COMPUTER + 80 MB INTERNAL 2.5" HARD DRIVE.	499.99
A1200 COMPUTER + 127 MB INTERNAL 2.5" HARD DRIVE.	549.99
A1200 COMPUTER + 200 MB INTERNAL 2.5" HARD DRIVE.	599.99
A1200 COMPUTER + 340 MB INTERNAL 2.5" HARD DRIVE.	749.99

ALL WITH FREE ELITE 2, BATMAN, LEMMINGS 2 & CIVILISATION AGA GAMES

COMMODORE AMIGA A1200 LEMMINGS PACK

275.99
WITH FREE LEMMINGS & DELUXE PAINT 3

AMIGA A1200 2/0 LEMMINGS PACK
COMPUTER WITH 2 MB RAM,
32 BIT 68020 14 MHz PROCESSOR, MOUSE,
BUILT-IN TV MODULATOR AND 1 YEAR IN-HOME SERVICE WARRANTY.
WITH LEMMINGS AND DELUXE PAINT 3. ....275.99

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A1200 COPMUTER + 64 MB INTERNAL 2.5" HARD DRIVE	415.99
A1200 COMPUTER + 80 MB INTERNAL 2.5" HARD DRIVE	439.99
A1200 COMPUTER + 127 MB INTERNAL 2.5" HARD DRIVE	489.99
A1200 COMPUTER + 200 MB INTERNAL 2.5" HARD DRIVE	539.99

ALL WITH FREE LEMMINGS AND DELUXE PAINT 3 SOFTWARE

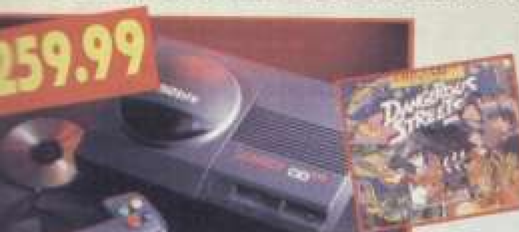
COMMODORE AMIGA A600 LEMMINGS PACK

199.99
WITH FREE LEMMINGS, FORMULA ONE GRAND PRIX, PUSHOVER, PUTTY & DELUXE PAINT 3

MIGA A600 LEMMINGS PACK 1/0
ITH BUILT-IN TV MODULATOR, MOUSE, WORKBENCH 2.0,
MB RAM EXPANDABLE TO 10 MB, 1 YEAR IN-HOME WARRANTY,
ITH LEMMINGS, F1 GRAND PRIX, PUSH OVER, PUTTY AND DELUXE PAINT 3 199.99

WHY NOT BUY THIS CHAOS SOFTWARE PACK WHEN YOU BUY YOUR A600?
CONTAINS CHAOS ENGINE, NICK FALDO GOLF,
NBALL FANTASIES AND SYNDICATE AND ALL FOR ONLY.............................19.99

AMIGA CD32 DANGEROUS STREETS PACK



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COMMODORE CONTROL PAD FOR CD32 (GENUINE MODEL)
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FULL MOTION VIDEO CD MODULE FOR AMIGA CD32
GIVES CD32 HIGH QUALITY FULL MOTION VIDEO CAPABILITY FOR MOVIES, MUSIC VIDEOS AND GAMES THAT FEATURE FMV GAMEPLAY. SIMPLY SLOTS INTO BACK OF CD32

OVERDRIVE HIGH SPEED HARD DRIVES

STAR BUY
" The fastest drive ever reviewed by CU Amiga"

FOR AMIGA A1200

- INCREDIBLY FAST
- STYLED TO MATCH AMIGA
- WESTERN DIGITAL DRIVE
- EASY INSTALLATION - PLUGS INTO PCMCIA SLOT
- EXTERNAL DRIVE
- AVERAGE ACCESS TIME 12MS
- 1 YEAR WARRANTY

AQ TOOLS AND 1 YEAR WARRANTY.
DOES NOT INVALIDATE WARRANTY

OVERDRIVE 120 MB HARD DRIVE .(DRIVE MECHANISM MAY VARY)	255.99
OVERDRIVE 210 MB HIGH SPEED HARD DRIVE FOR A1200.	289.99
OVERDRIVE 250 MB HIGH SPEED HARD DRIVE FOR A1200.	309.99
OVERDRIVE 340 MB HIGH SPEED HARD DRIVE FOR A1200.	369.99
OVERDRIVE 420 MB HIGH SPEED HARD DRIVE FOR A1200.	439.99

CONNER HARD DRIVES FOR AMIGA A1200 & A600

THESE EXCELLENT INTERNAL DRIVES ARE PERFECT FOR THE USER WHO DEMANDS FAST AND RELIABLE DATA STORAGE. FITTING NEATLY INSIDE THE MACHINE, THEY REQUIRE NO EXTRA DESK SPACE. INSTALLATION IS EASILY PERFORMED WITH THE RELEVANT WORKBENCH OPERATING SYSTEM BEING PRE-LOADED ONTO THE DRIVE. FITTING INSTRUCTIONS ARE INCLUDED ALONG WITH THE RELEVANT CABLE AND SCREWS.

CONNER HARD DRIVES: (INTERNAL IDE, MODEL CP2064). HIGH SPEED 2.5" DRIVE, 15 MS ACCESS TIME (APPROX). 32K CACHE AND ONE YEAR WARRANTY. KIT COMPLETE. NOTE THAT OPENING YOUR AMIGA MAY INVALIDATE THE WARRANTY.

CONNER 64 MB HARD DRIVE FOR AMIGA A1200	129.99
CONNER 64 MB HARD DRIVE FOR AMIGA A600	129.99

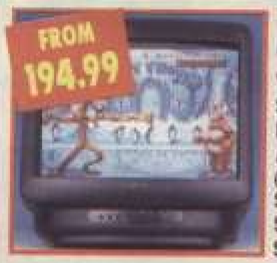
MICROVITEC 1438 MULTI-SYNC MONITOR

FOR AMIGA A1200/A4000 OR PC. COMPLETE WITH STEREO SPEAKERS. 0.28 DOT PITCH RESOLUTION, 15 PIN RGB DIN PLUG. AMIGA ADAPTOR PLUG INCLUDED. SUITS ALL AMIGA AGA AND ALL PC SCREEN MODES TO SVGA.
1 YEAR WARRANTY..299.99

169.99
FREE SCART LEAD

GOLDSTAR CI14A80 14" COLOUR SCART TV

WITH REMOTE CONTROL AND SCART INPUT, ON SCREEN DISPLAY, AUTO POWER OFF, SLEEP TIMER, ON TIMER, CHILD LOCK.
FREE SCART LEAD
(STATE AMIGA, CD32,
MEGADRIVE 1 OR 2, OR SNES) 169.99



SONY KVM1400 14" FST COLOUR SCART TV/MONITOR

WITH REMOTE CONTROL. 60 CHANNEL TUNING, REAR SCART INPUT, HEADPHONE SOCKET, TWO POSITION TILT, BLACK TRINITRON SCREEN, LOOP AERIAL
FREE SCART LEAD
(STATE AMIGA, CD32, ST, MEGADRIVE 1 OR 2, OR SNES).

SONY KVM1400 (GREY)	194.99
SONY KVM1400 (WHITE)	194.99
SONY KVM1401BL FASTEXT	244.99

These televisions will give you a pixel sharp monitor quality picture from an Amiga, Super NES, Megadrive 1 & 2, and CD32 via the Scart Socket. To enable you to achieve this we include a FREE Scart Lead with each TV.

• Special Reserve - The Discount Club •

PANASONIC KXP2123 COLOUR PRINTER

WITH FREE WORDWORTH V.2 WORD PROCESSOR FOR AMIGA

NEW LOWER PRICE
WORDWORTH
AMIGA WHILE STOCKS LAST

24 PIN, 80 COLUMN, 192 CPS/64LQ, 7 FONTS (1 SCALABLE), EXTREMELY QUIET 43.5 DBA NOISE LEVEL, FREE PRINTER LEAD. 1 YEAR WARRANTY. ONE OF THE QUIETEST DOT MATRIX PRINTERS ON THE MARKET FREE PRINTER LEAD

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CANON BJ10 SX BUBBLE JET PRINTER

64 NOZZLE, 80 COLUMN, 110LQ CPS 2LQ/3 DRAFT FONT, 1 YEAR WARRANTY. A SMALL, PORTABLE PRINTER, VERY QUIET IN OPERATION YET GIVING OUTSTANDING PRINT QUALITY. A FAST & QUIET PRINTER.
FREE PRINTER LEAD

...................215.99

CANON BJ-200 BUBBLE JET PRINTER

80 COLUMN,
248CPS,
8 TYPEFACES,
3 PRINTING MODES.
A FAST AND QUIET PRINTER THAT GIVES EXCEPTIONAL AND QUALITY RESULTS.
FREE PRINTER LEAD

....239.99

CANON BJC-600 COLOUR BUBBLE JET PRINTER

80 COLUMN,
8 FONTS,
360 DPI RESOLUTION, UP TO 3 PAGES PER MINUTE.
BUILT IN 100 SHEET FEEDER.
FREE PRINTER LEAD.

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CITIZEN
Dealer Plus

Citizen have long had an excellent reputation for producing excellent quality dot matrix home computer compatible printers. All Citizen printers come complete with colour kits and are compatible with Amiga, PC and Atari ST. Check out the new ABC Printer - the incredibly easy to use 24 Pin printer.

CITIZEN ABC PRINTER + COLOUR KIT

24 PIN, 80 COLUMN, 192CPS/64LQ, 5LQ/1 DRAFT FONT, 2 YEAR WARRANTY, FREE PRINTER LEAD.
THE EASIEST TO USE PRINTER ON THE MARKET. COMPLETE WITH FREE CITIZEN EASYSTART SOFTWARE FOR BOTH AMIGA AND PC.
FREE PRINTER LEAD 164.99

CITIZEN SWIFT 90C COLOUR PRINTER

NEW LOWER PRICE
BEST BUY

9 PIN, 80 COLUMN, 240CPS/54NLQ, 6NLQ FONTS, 2 YEAR WARRANTY.
A 9 PIN PRINTER WITH COLOUR FACILITY AND FULL PAPER HANDLING FUNCTIONS.
FREE PRINTER LEAD.

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CITIZEN SWIFT 200C PRINTER + COLOUR KIT

24 PIN, 80 COLUMN, 216CPS/72LQ 6 LQ/1 DRAFT FONT, AUTO SET FACILITY, INPUT DATA BUFFER, AUTO PAPER LOADING, ENVELOPE PRINTING, 2 YEAR WARRANTY.
FREE PRINTER LEAD. ......

......................189.99

CITIZEN 240C PRINTER + COLOUR KIT

24 PIN, 80 COLUMN, 240CPS/80LQ, 9LQ/1 DRAFT FONT, 2 YEAR WARRANTY. ADVANCED VERSION OF 24E WITH AUTOSET FEATURE AND LCD CONTROL PANEL FREE PRINTER LEAD.

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EPSON LQ100 PRINTER

NEW LOWER PRICE

24 PIN, 80 COLUMN, 250 CPS/72 LQ, 8 FONTS (2 SCALABLE), QUIET 50DB NOISE LEVEL, EASY TO USE CONTROL PANEL.1 YEAR WARRANTY.
EXCEPTIONAL QUALITY LOW COST 24 PIN PRINTER. FREE PRINTER LEAD

........................159.99

EPSON LQ-150 PRINTER

24 PIN, 80 COLUMN, 216 CPS/79 LQ, 6 FONTS (6 SCALABLE), QUIET 46.5DB NOISE LEVEL, EASY TO USE CONTROL PANEL, FREE PRINTER LEAD. 1 YEAR WARRANTY. EXCEPTIONAL QUALITY EASY TO USE LOW COST 24 PIN PRINTER

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EPSON STYLUS 800 INKJET PRINTER.

NEW LOWER PRICE

48 NOZZLE, 80 COLUMN, 150CPS LQ, 360DPI RESOLUTION, 4 SCALABLE FONTS, LOW RUNNING COSTS, EASY TO USE CONTROL PANEL. FREE PRINTER LEAD. 2 YEAR WARRANTY

........................244.99

PRINTER ACCESSORIES & CONSUMABLES

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RIBBON (BLACK) FOR PANASONIC KXP2123, KXP2180 AND KXP2124 PRINTER	10.99
RIBBON (COLOUR) FOR PANASONIC KXP2123, KXP2180 AND KXP2124 PRINTER	16.99

CANON

CANON AUTO CUT SHEET FEEDER FOR BJ-10EX OR BJ-10SX (50 SHEET CAPACITY) PRINTER. ALLOWS AUTOMATIC FEEDING OF 50 SHEETS OF PAPER	54.99
INK CARTRIDGE (BLACK) FOR CANON BJ-10EX OR BJ-10SX	19.99
INK CARTRIDGE (BLACK) FOR CANON BJ-200	23.99
RIBBON CARTRIDGE (BLACK) FOR CANON BJC-600	8.99
RIBBON CARTRIDGE (CYAN) FOR CANON BJC-600	10.99
RIBBON CARTRIDGE (MAGENTA) FOR CANON BJC-600	10.99
RIBBON CARTRIDGE (YELLOW) FOR CANON BJC-600	10.99

CITIZEN

CITIZEN PRINTER DRIVER KIT FOR AMIGA. SUITS ALL WORKBENCH VERSIONS FROM 1.3 TO 3.0 ENHANCES PRINT QUALITY FROM CITIZEN SWIFT PRINTERS. GIVES OUTSTANDING RESULTS	12.99
CITIZEN TRACTOR FEED KIT FOR CITIZEN ABC PRINTER. EASY TO FIT KIT WHICH ALLOWS CONTINUOUS PAPER TO BE USED	32.99
(BLACK) FOR CITIZEN SWIFT 24, 224,240 OR ABC	6.99
RIBBON (BLACK) FOR CITIZEN SWIFT 9, 90C OR 120D+	5.99
RIBBON (COLOUR) FOR CITIZEN SWIFT 9, 90C, 24, 200, 224, 240C OR ABC	14.99

EPSON

EPSON TRACTOR FEED KIT FOR EPSON LQ-100 OR LQ-150	32.99
INK CARTRIDGE (BLACK) FOR EPSON STYLUS 800	11.99
RIBBON (COLOUR) FOR EPSON LQ-150	16.99
RIBBON (BLACK) FOR EPSON LQ-150	8.99
RIBBON (BLACK) FOR EPSON LQ100 PRINTER	8.99

GENERAL ACCESSORIES

DUST COVER FOR 80 COLUMN PRINTER (CLEAR PVC)	4.99
SWITCHER BOX FOR AMIGA, ST OR PC. CONNECTS TWO PRINTERS OR TWO PERIPHERALS TO PARALLEL PRINTER PORT. MANUAL SWITCHER. REQUIRES SWITCHER LEAD	18.99
SWITCHER LEAD (STRAIGHT THROUGH CABLE). CONNECTS AMIGA, ST OR PC TO SWITCHER BOX. 1.8 METRES PARALLEL (MALE TO MALE 25 WAY D CONNECTORS)	9.99
PRINTER LEAD (PARALLEL) 1.5 METRES FOR AMIGA, ST OR PC	7.99
PRINTER LEAD (PARALLEL) 10 METRES FOR AMIGA, ST OR PC	15.99
PRINTER LEAD (PARALLEL) 5 METRES FOR AMIGA, ST OR PC	10.99
PRINTER STAND FOR ANY PRINTER. ALLOWS PAPER TO BE STORED UNDERNEATH PRINTER FOR CLEAN AND TIDY OPERATION OF PRINTER.	7.99

DISK BOXES

DELUXE DISK BOX 3.5" (80), LOCKABLE, DIVIDERS	9.99
MEDIA LIFE DISK FILE DRAWER (100 CAPACITY). STACKABLE DESIGN	13.99
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MEDIA LIFE A4 COPY HOLDER. FREE STANDING, EASY SELF ASSEMBLY. HOLDS A4 PAGE FOR COPY TYPINGINTO WORD PROCESSOR, DATABASE, SPREADSHEET ETC	6.99
MEDIA LIFE CD FILE DRAWER (30 CAPACITY). STACKABLE DESIGN, EASY SELF ASSEMBLY	15.99
DISK BOX 3.5" (120) LOCKABLE, DIVIDERS	9.99
DISK BOX 3.5" PLASTIC FLIP TOP (10 CAPACITY)	2.49

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PACK OF 10 TDK MF-2DD 3.5" DISKS (DSDD BRANDED)
7.99

PACK OF 50 SONY DSDD 3.5" DISKS WITH LABELS
22.99

SONY

DSDD 3.5" DISKS WITH LABELS

PACK OF 10 + FREE PLASTIC FLIP TOP DISK BOX 6.99

PACK OF 50 22.99

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512K AMIGA RAM WITH CLOCK FOR A500 AND A500	19.99
512K AMIGA RAM WITHOUT CLOCK FOR A500 AND A500+	17.99
1 MEGABYTE A500 PLUS RAM UPGRADE WITH CLOCK	37.99
1 MEGABYTE A600 RAM UPGRADE WITH CLOCK	46.99
4 MEGABYTE PCMCIA UPGRADE FOR A600 OR A1200. PLUGS DIRECTLY INTO SMART CARD SLOT. THESE ARE NOT BATTERY BACKED AND CAN'T BE USED AS A DISK, ONLY AS RAM.	169.99
4 MB RAM EXPANSION FOR AMIGA A4000. EASILY INSTALLED TO UPGRADE FROM 2 MB RAM TO 6 MB RAM. SUITS 030 OR 040 MODEL	134.99

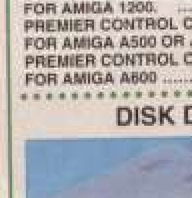
OMEGA RAM FOR AMIGA A1200. BOARD FITS INTO THE TRAPDOOR RAM EXPANSION SLOT UNDERNEATH THE COMPUTER. DOES NOT VOID WARRANTY. REAL TIME CLOCK INCLUDED. THIS RAM BOARD IS FULLY COMPATIBLE WITH THE OVERDRIVE HIGH SPEED HARD DRIVES

OMEGA 2 MB RAM FOR A1200	149.99
OMEGA 4 MB RAM FOR A1200.	189.99

OMEGA FPU RAM FOR AMIGA A1200. SPECIFICATION AS FOR OMEGA RAM BUT WITH ADDITIONAL 68881 FLOATING POINT UNIT FOR MATHS AND GRAPHICS ACCELERATION

OMEGA FPU + 2 MB RAM FOR A1200	169.99
OMEGA FPU + 4 MB RAM FOR A1200	209.99

WORK CENTRES



PREMIER CONTROL CENTRE FOR AMIGAS (STEEL MONITOR STAND WITH EXTRA SHELF FOR EXTERNAL DISK DRIVE AND ACCESSORIES. CUSTOM FIT DESIGN) (DISK DRIVE, MONITOR & COMPUTER NOT INCLUDED)

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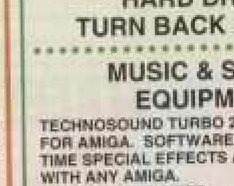

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CONSOLE SAL

MASSIVE REDUCTIONS ON CONSOLE GAMES - SEE PAGE 8

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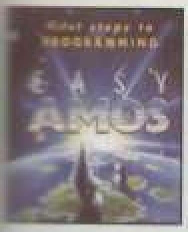

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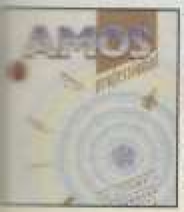

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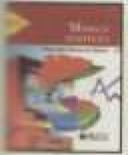

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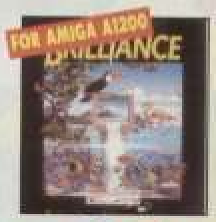

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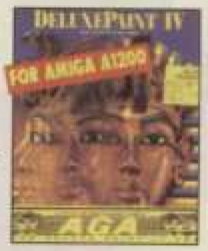

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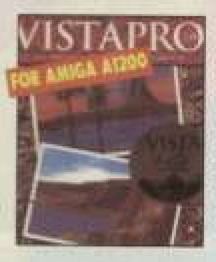

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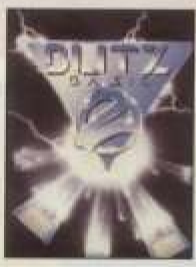

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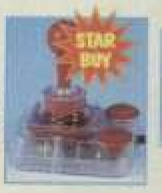

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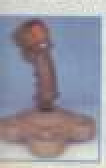

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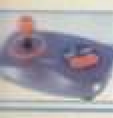

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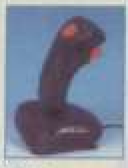

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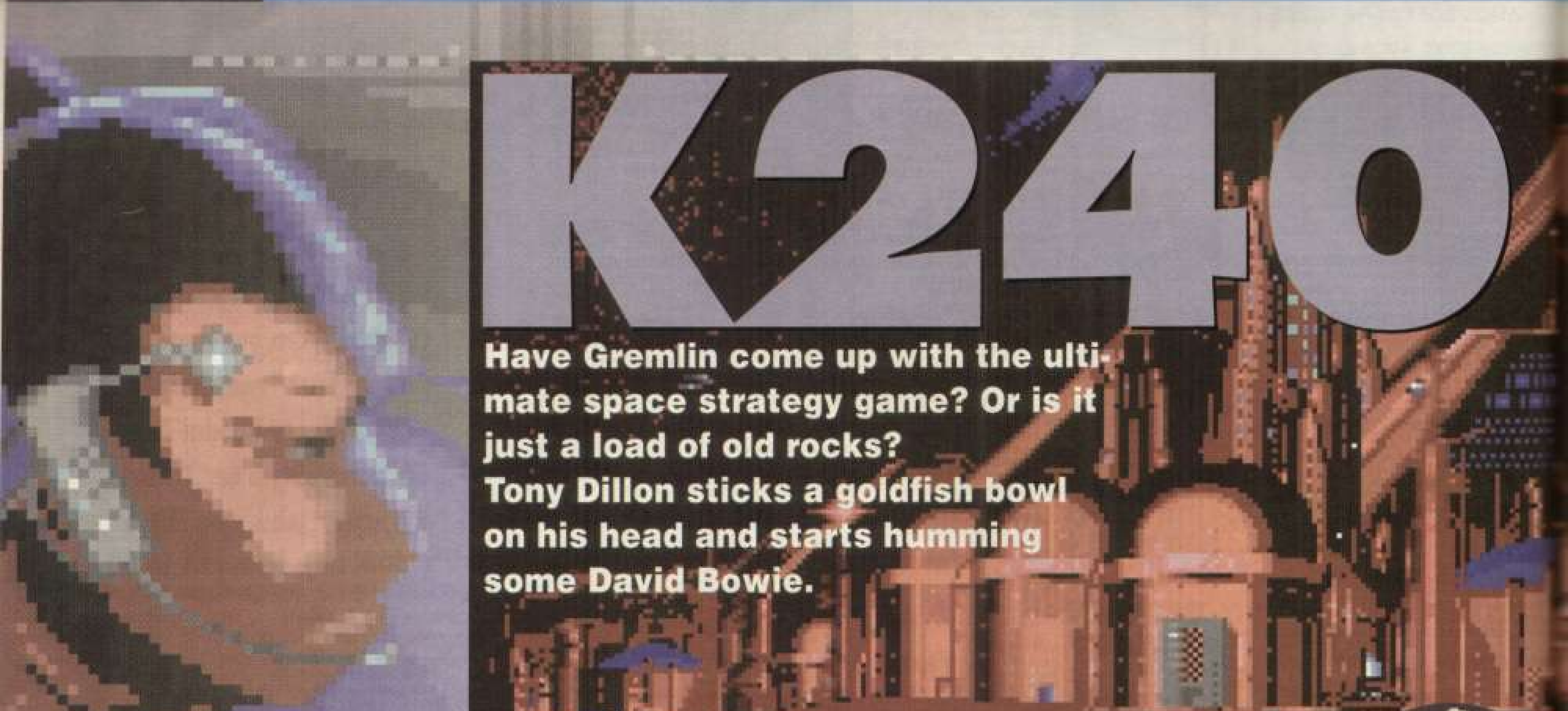


K240

Have Gremlin come up with the ultimate space strategy game? Or is it just a load of old rocks?
Tony Dillon sticks a goldfish bowl on his head and starts humming some David Bowie.

If you sat down and spent some time with our exclusive playable demo on the March 94 issue of CU AMIGA you'll already know what a great game K240 is, you haven't even seen the half of it yet! *K240*, otherwise known as *Utopia 2*, is a massive game, and one that will keep you playing for months. But what am I doing telling you to go out and buy it, I haven't even told you what it is yet!

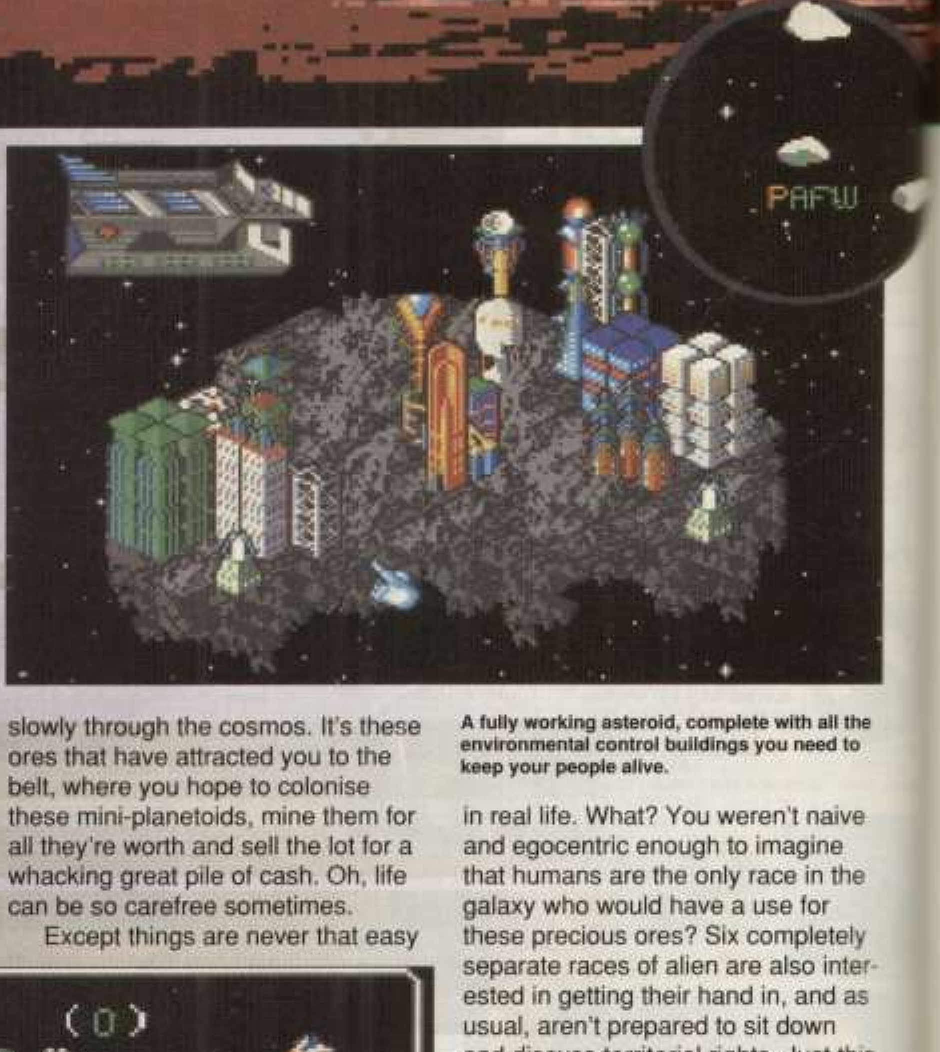
AMIGA SCREEN STAR

TIGHTEN YOUR BELT

Sector K240 is an uncharted asteroid belt out in deep space, where huge chunks of rock rich in ores move slowly through the cosmos. It's these ores that have attracted you to the belt, where you hope to colonise these mini-planetoids, mine them for all they're worth and sell the lot for a whacking great pile of cash. Oh, life can be so carefree sometimes.

Except things are never that easy in real life. What? You weren't naive and egocentric enough to imagine that humans are the only race in the galaxy who would have a use for these precious ores? Six completely separate races of alien are also interested in getting their hand in, and as usual, aren't prepared to sit down and discuss territorial rights. Just this simple premise alone leaves you with quite a few tasks to uphold, namely: start and develop a mining colony, explore a massive region of space for asteroids and alien presence and win a war against the alien you eventually discover. It's a lot for one man to do, so you're going to have your work cut out.

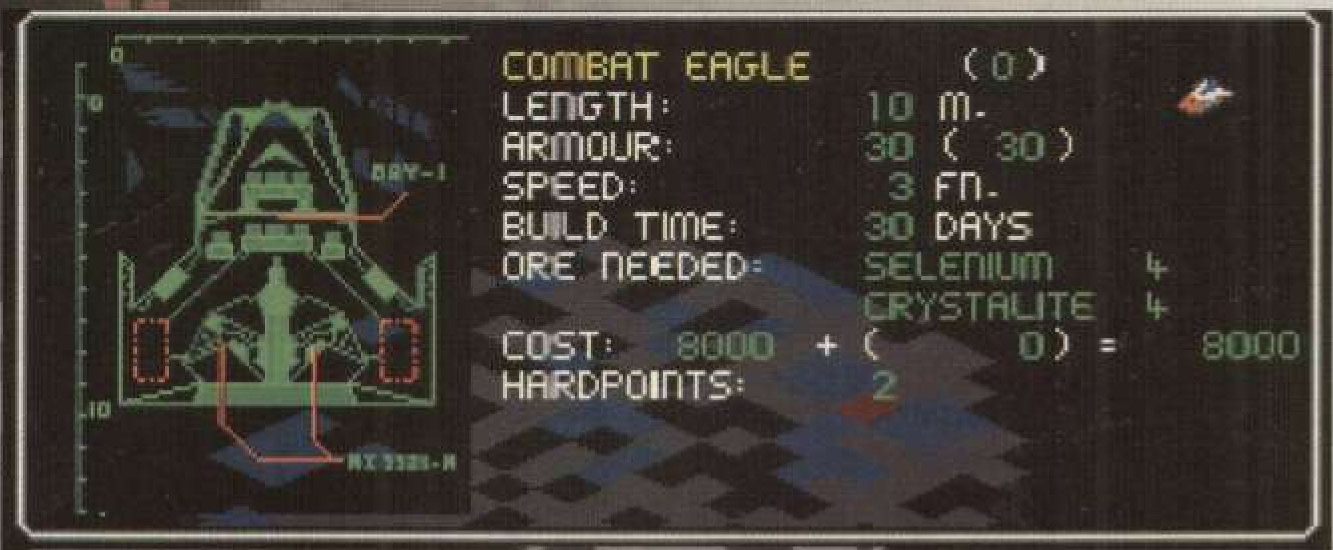
You start the game with one asteroid, with only one building on it and a modest amount of cash. The first thing you have to do is get your mining colony up and running. For this you have to ensure you have



A fully working asteroid, complete with all the environmental control buildings you need to keep your people alive.

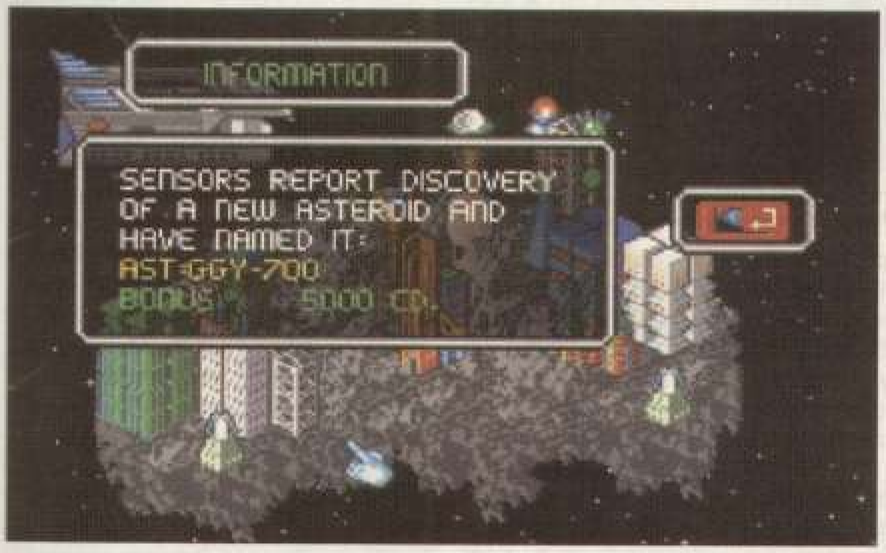
STAND STILL FOR A MOMENT

In sector K240, things never stop moving. The asteroids you colonise are constantly drifting, and if you buy an Asteroid Scanner, you can track the movements of these huge chunks of stone. Remember, the sector only has a finite amount of room, and these things do take up considerable space so it's quite easy for them to collide. Gravity Nullifiers placed on each asteroid will repel others, keeping them safe, but for complete luxury, you can't beat an asteroid engine, which lets you steer your home to a safer location. Isn't it amazing what they can think of?



```
COMBAT EAGLE          ( 0 )
LENGTH:               10 M.
ARMOUR:               30 ( 30 )
SPEED:                 3 FM.
BUILD TIME:           30 DAYS
ORE NEEDED:           SELENIUM     4
                      CRYSTALITE   4
COST:   8000  + (           0) =     8000
HARDPOINTS:            2
```

The more asteroids you discover, the more ores you can mine.



SENSORS REPORT DISCOVERY OF A NEW ASTEROID AND HAVE NAMED IT:
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enough in the way of housing and food for all the colonists who are going to live on your bit of rock, as well as making sure that radiation is kept to a safe level, there is enough power to keep all the buildings running, you have adequate medical and police operations running and, of course, that you have some mines actually collecting the ores. Once you have that out of the way, you can start looking at the rest of space.

Switching to a view of the entire belt, from the outset all you can see is a large grey screen with a black circle and a spinning asteroid in the middle of the circle. When I told you it was uncharted, I wasn't joking. The asteroid on screen is yours, and therefore the only one you know actually exists in the belt. The black circle is as far as your sensors reach, and any asteroids that might drift into that belt will be given a name and displayed. Somewhere out in that inky blackness is an alien, who is trying to do exactly the same thing as you, and all you need to do eventually is locate it.

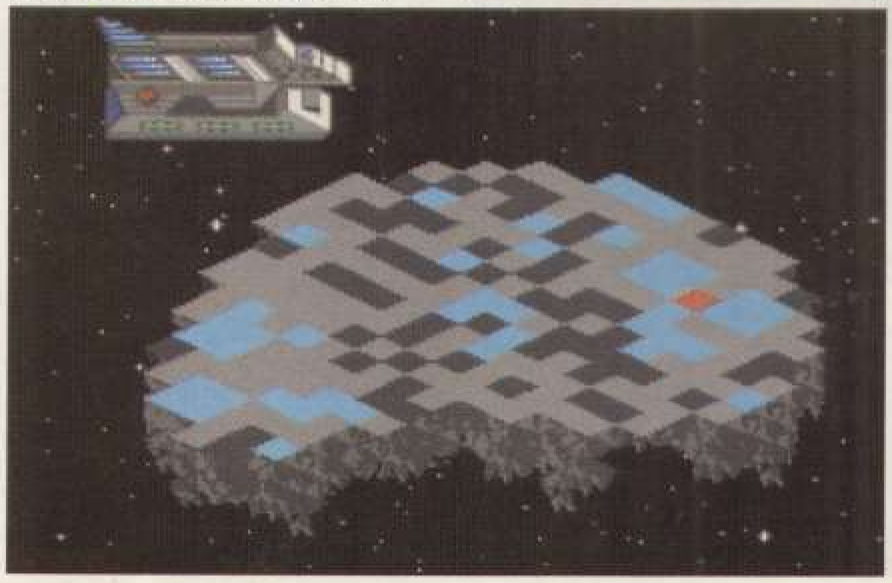
MORE THAN THE EYE CAN SEE

Combat plays quite a major role in the game, and as a result you're going to spend quite a long time just building weapons and getting them ready for battle. There are various different ways you can attack the opposition, from just firing a few missiles at their asteroid to going in for a full strike with a fleet of heavily armed ships. The sheer volume of aggressive weaponry in this game has to be seen – there are dozens of different ships, from small scout ships which go out and explore empty areas of space and record their findings to huge battlecruisers with tens of gun emplacements and everything in between. But ships take quite a long time to cover the vast tracts of the void, and a well aimed volley of missiles can sometimes do the job so much better.

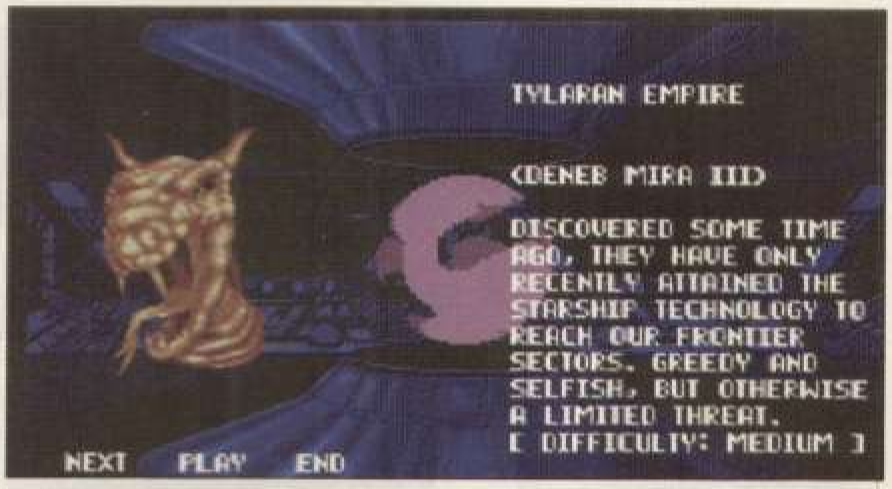
Again, you have a massive choice of missiles, provided you have the funds and the raw materials to build them. There are everything from small explosives to napalm and nuclear warheads right up to my personal favourite, a vortex missile, which creates a bolt of lightning that wanders around the asteroid for a limited time wiping out everything it touches.

With all this going on, you would expect *K240* to be very tricky to actually play. Your assumption couldn't be further from the truth. A small series of icon banks, brought into being with the right mouse button, control everything in the game, and these are laid out in a logical way, and drawn in a way that makes them easily recognisable. In short, you don't really need to read the manual to get a lot from the game, just a little logical thinking. For example, if it seems to you that you need to do some deep bore mining to really get to the good stuff in your asteroid, simply look for the build icon, which resembles a building being built, and then select the deep bore mine. Want to build a ship? Go to the spacecraft icon, and then select build. What could be easier than that? To make life even easier, clicking and holding with the left mouse button on an icon 'extracts' it from the menu bank it's in, and places it out on the main display, making it much easier to find the next time you want to use it.

As I said right at the start, *K240* is a huge game. There is a lot you won't get the first few times you play it, and thanks to the unexpected events (see panel), the game will be constantly throwing new things at you for months. Play it for an hour, and you might as well kiss goodbye to half the year. A splendid sequel. CU



When it comes to building on smaller asteroids, map mode makes it so much easier.



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Who said aliens were humainoid with large eyes? They obviously hadn't met this selfish bunch.

DON'T GET EX-SCITEK

A dreadful pun, I know, but a good way to introduce you to the concept of a growing game. When you begin, you have a full inventory of possible buildings and tools with which to create your little world. Thanks to Sci-Tek, a sort of interplanetary Argos, you can increase your range. It costs a fair bit of cash, of course, but if you can afford it you can buy better mines, shields for your buildings, asteroid engines, asteroid trackers and enhanced sensors. Plus a whole selection of gifts for him and her, golf clubs and amusing alarm clocks.

EXPECT THE UNEXPECTED

Space is a fairly large thing, and anything can happen. In this game, anything does happen, so just to make life a little harder, occasionally strange phenomenon will occur to completely knacker your game. A solar flare might occur, for example, which increases the radiation hitting your asteroids. Or a comet might come streaking through the sector, smashing craft and asteroids to smithereens. It isn't all bad, though. You might suddenly discover that the asteroid you had mined dry had suddenly shown to have even more ore on a lower strata, or the federation might supply you with back up ships for no reason at all. You know what to expect...

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RELEASE DATE:	MARCH
GENRE:	STRATEGY
TEAM:	IN HOUSE
CONTROLS:	MOUSE
NUMBER OF DISKS:	3
NUMBER OF PLAYERS:	1
HARD DISK INSTALLABLE:	YES
MEMORY:	1Mb

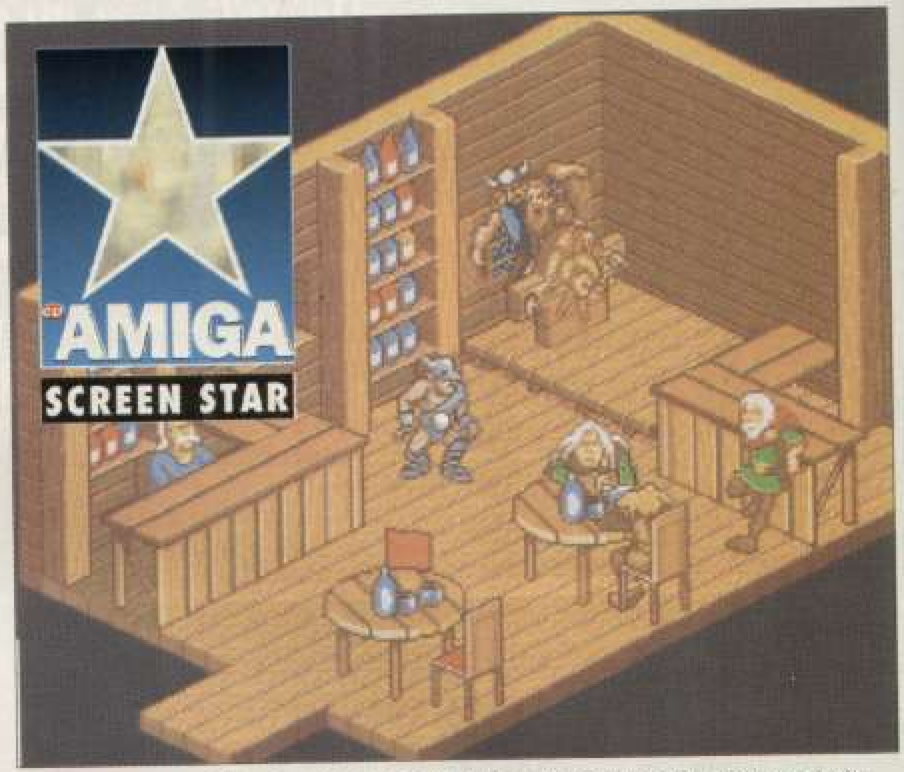
GRAPHICS	82%
SOUND	71%
LASTABILITY	64%
PLAYABILITY	79%

> A brilliant stategy game.

OVERALL 91%

HEIMD

Polish your shield and sharpen your swords, Matt Broughton's here to kick in the hoards! Hurrah!



This looks like a good place to make some new friends. That strange game in the corner looks familiar though. Anyone got a spare axe?

My Nan always used to say: "Don't mess with Gods". Often we would sit over a hot cup of tea (she never found furniture comfortable during her later years) and ponder the mysteries of the universe.

"Annoying a God will result in being instantly expelled from existence" she would say. "At worst, they'll rip off your arms and legs and condemn your useless torso to an eternity watching Neighbours in a small room just outside of Catford. Without any toilet facilities." Nasty.

Of course some people never listen, and some people never learn. Take this Heimdall fellow for instance. Anyone lucky enough to go up against Loki, the God of mischief, and come out in one piece deserves a wreath and a hearty handshake. Anyone who then goes up against that God again however, deserves to have his arms and legs removed etc. etc.

Well, Heimdall is just such a chap. Not happy with his success a few years ago, he has once again entered the isometric arena in search of thrills.

GODLESS

The original *Heimdall* was well-received by most of the gamesplaying world. It's probably remembered best for its rather tasteless 'throw the axe at the girl with pig-tails' sub-game more than anything else. Nevertheless, *Heimdall* was a best selling, heroic quest through numerous lands to find a number of ancient and powerful objects while taking on gangs of nasty monsters.

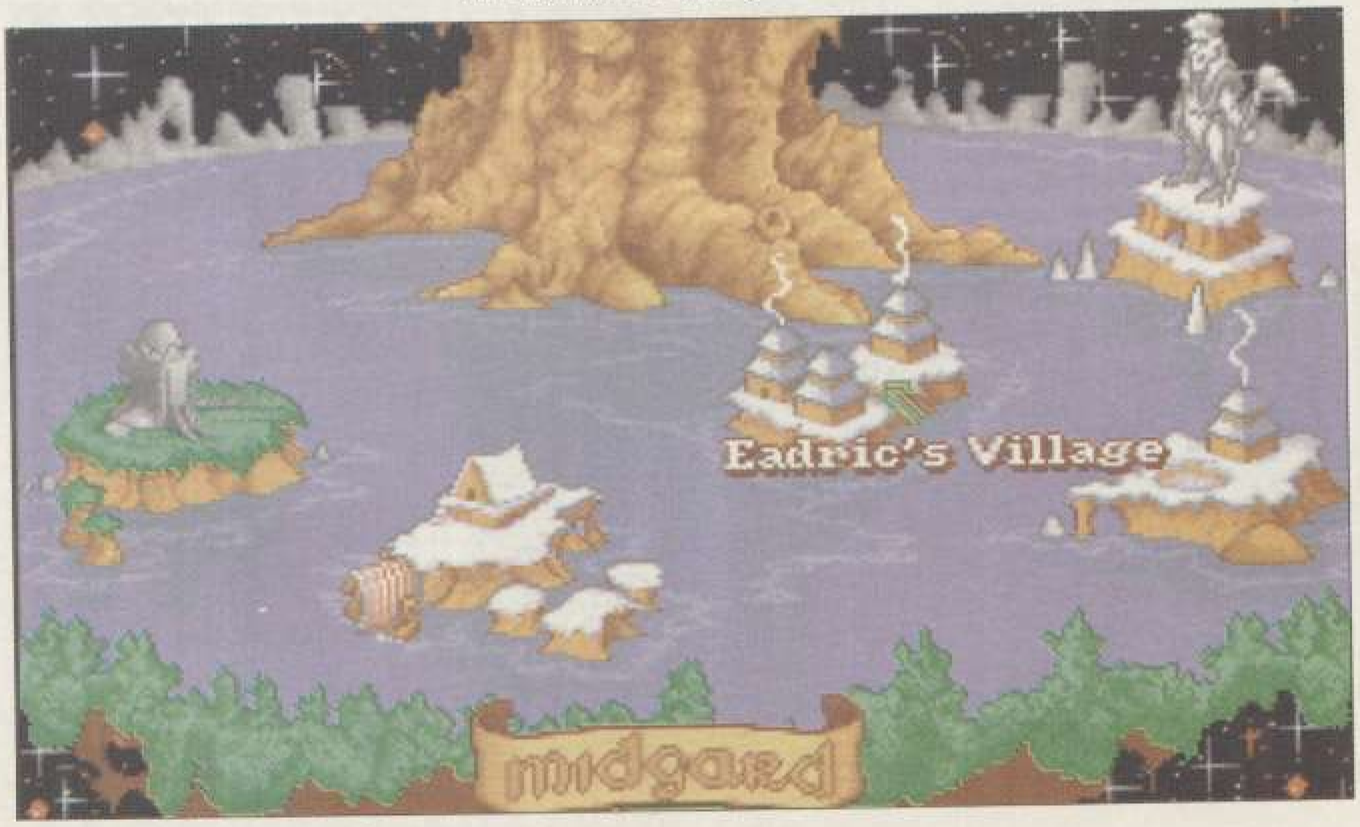
Heimdall 2 is, not surprisingly, more of the same but with improved features and presentation, offering a number of quests within quests, and an improved control system. Most tasks are based upon the age-old format of delivering the correct object to the correct character, thus inheriting another object which is given to someone else who, in turn gives you something... and so on and on and on.

Heimdall 2 has some smashing graphics to keep you feeling perky, not to mention just the right amount of arcade and puzzle extras, making it an exciting and absorbing game to play. There are many obstacles which you must pass to succeed, like pillars of flame which spout upwards in set time sequences. Theseneed to be studied and negotiated with skill and perseverance.

Arcade action comes in the form of numerous baddies just begging to be run through with a large pointy stick, or better still, shot from a distance with your trusty bow and arrow. There are also plenty of objects to collect and exchange, while conversing with numerous non-hostile characters who give you handy hints on which object to pick up next.

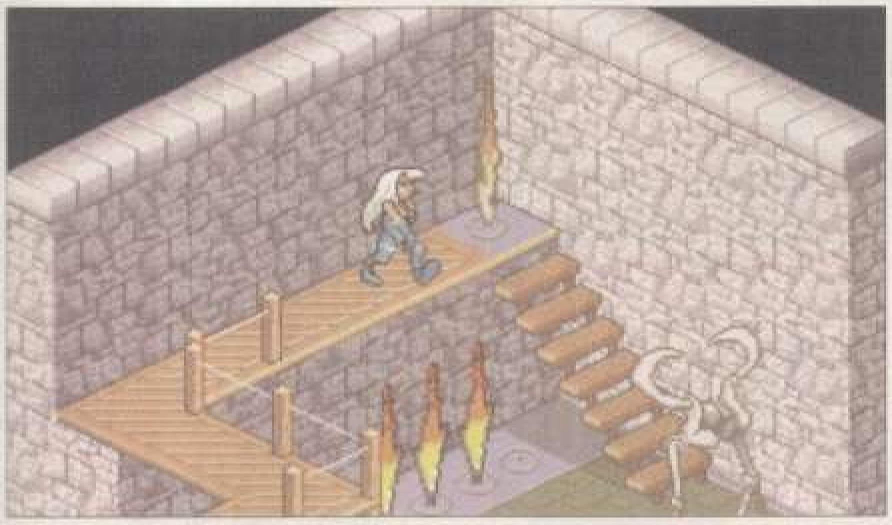
OVER TO YOU

Heimdall was on his own in the original game, but Core have taken pity on him in this version and he is now



The lands of *Heimdall* are pretty impressive in size, so don't be surprised if you need a little bit of extra transport along the way. 'Elephant and Castle please.'

ALL 2

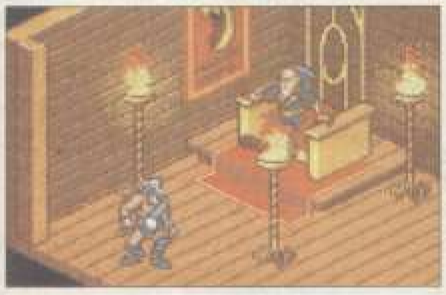


I can't change this puzzle, but I can change my bottom to a flame grilled bottom. You've got it! (Hold the mayo.)

accompanied by a Valkyrie called Ursha. Unfortunately Ursha is somewhat lacking in the magic department, but she more makes up for this in the combat stakes. Heimdall and Ursha never appear on-screen at the same time, but you can switch characters at any point with the click of a mouse button.

For the most part, *Heimdall* is controlled in standard isometric fashion, using the joystick to move and the fire button to use your weapons. Should you want to access your inventory at any time, the mouse comes into action, clicking between characters and manipulating objects to and from each one. The inventory is split into a number of specific 'pockets'; one for held weapons (sword, axe etc.), one for thrown weapons (bow, knife etc.) and three more covering holy artifacts, amulets and objects held. Anything that you want to move into the 'real world' must be transferred into the 'objects held' hand – then it's back to joystick juggling again whatever said object is. Phew!

It's all a lot easier to operate than it is to describe, but suffice to say that after a few minutes of play you'll never be left unsure of how to perform any of your actions.



If seems that facial foliage features prominently in the local hierarchy, to the point where you can't be a king unless you've got a silly white beard (see left also). Oh well, best start growing one now then really.

QUEST? WHAT QUEST?

You've heard me talking about quests within quests, but what exactly are they? Let me give you a walk-through example from one quest.

You appear in a location, only to find a huge pile of bodies left after a major battle. On closer inspection, you realise that there is one survivor.

Unfortunately, halfway through your conversation he dies (just like 'interesting chats' with Tony Dillon). Bad as this may seem, it's not actually a problem for Heimybaby because he knows how to use a portal into the half world and communicate with the dead.

One spooky conversation later, you're left with the family crested suit of armour and a message for the king regarding possible allies encountered during the battle. Back in the real world and wearing the new armour, you take the message to the king, who in return gives you a scroll which will get you out of trouble with any other kings you run into. And, lo and behold, guess what happens next! It's like a never-ending chain letter.

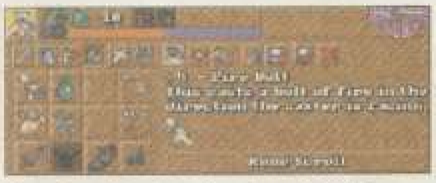
COULD IT BE MAGIC?

Magic features throughout the game in the form of Rune stones, which can be arranged in a number of different formulae to create different effects.

As you travel through the game, scrolls can be collected and examined, each giving the recipe for a different spell. These can be collected in weekly instalments to form a comprehensive guide to magic in the modern world.

Whether you're looking for fireballs, poison or healing, you'll find them all here – free binder with issue one *(could you stop talking rubbish please – Ed.)*

Heimdall 2 really has to played to be fully appreciated. I could go on forever about it but I won't. Suffice to say there's enough here to keep you going for quite a while. Couple that with stonkingly good presentation and you've got something well worth taking home and introducing to your parents.



Never be without your inventory. If object manipulation's your game, all the thrills and spills are waiting for you here.

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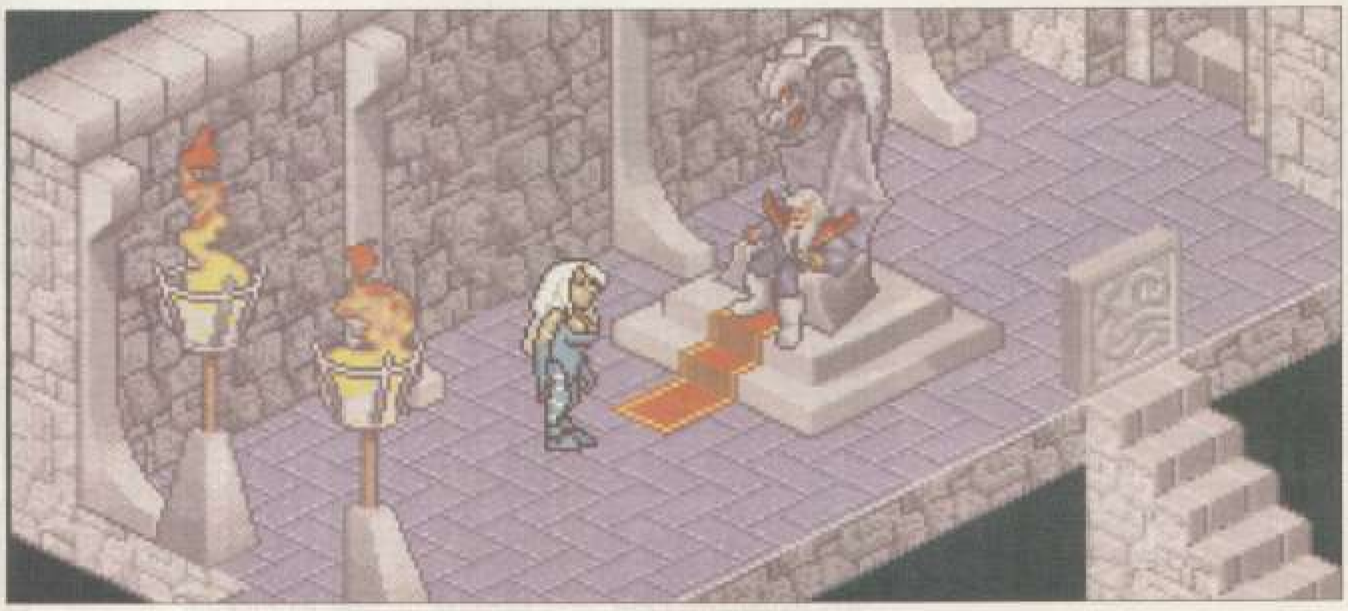
RELEASE DATE:	APRIL
GENRE:	ARCADE/ADVENTURE
TEAM:	8TH DAY
CONTROLS:	JOYSTICK, MOUSE
NUMBER OF DISKS:	3
NUMBER OF PLAYERS:	1
HARD DISK INSTALLABLE:	NO
MEMORY:	1Mb

GRAPHICS	89%
SOUND	83%
LASTABILITY	89%
PLAYABILITY	88%

> *About as good as you'll get in this genre right now.*

OVERALL 90%



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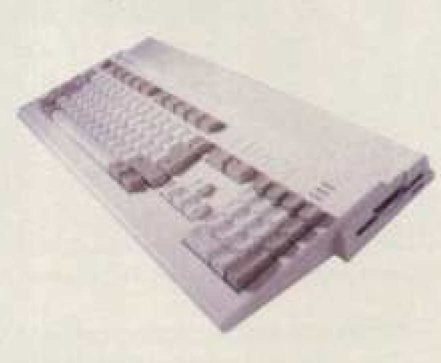

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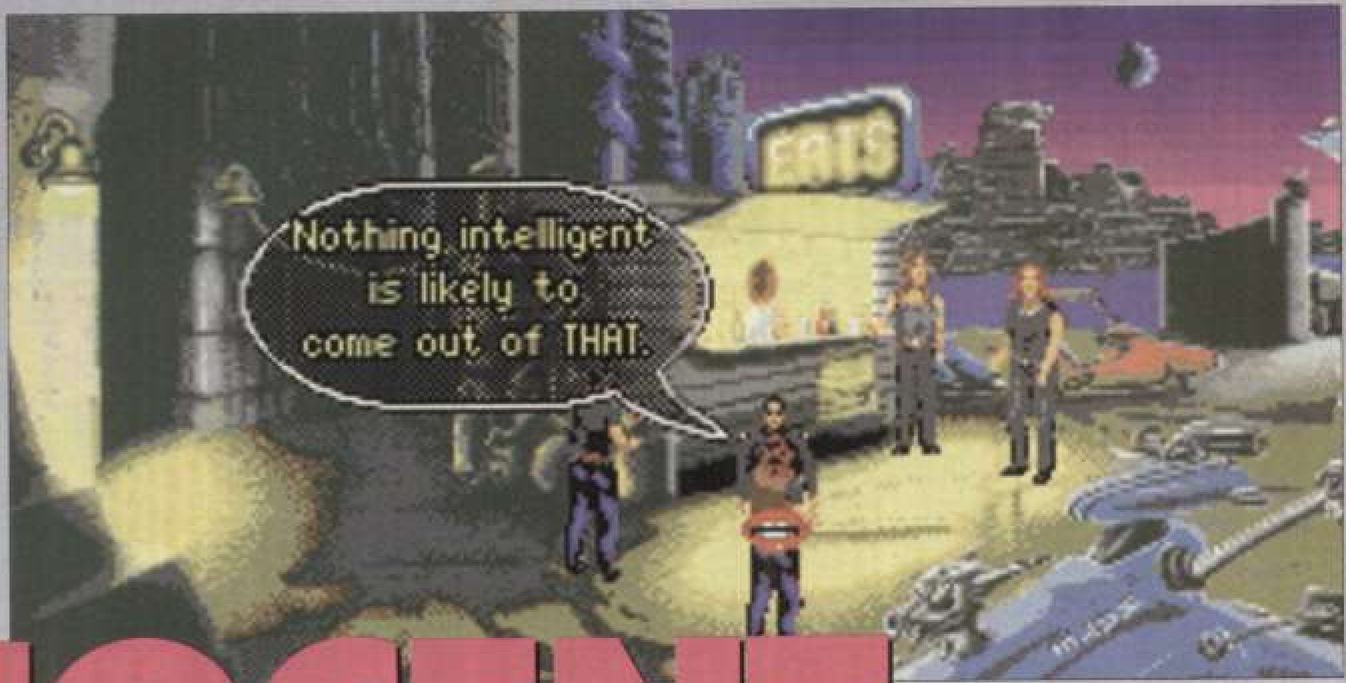
Another graphic adventure enters the CU AMIGA office from an unusual source. Stephen Enstone discovers whether it has anything new to offer or whether it's just the same as all the rest.



Don't talk about Tony Dillon like that! He might get mad, don his birthday beard and start singing 'Release Me'.

INNOCENT UNTIL CAUGHT

The Interstellar Revenue Decimation Service IRDS (the tax men) have got in it in for Jack T.Ladd, small time smuggler and contraband dealer. They want loads of money within the next 28 days or else they are going to do something very nasty to him. In order to earn enough cash to pay off this debt he must beg, borrow, swop, steal – basically anything legal or illegal that doesn't involve manual labour.

Exciting plot isn't it? What really amazes me is that they managed to stretch it out to fill 31 pages in the manual. Creative writing or what?

YOU'LL NEVER TAKE ME ALIVE COPPER

You control Jack using a series of icons on the base of the screen. There are six basic controls: take, use, move, look, scan and talk. All fairly obvious. An interesting option is the speed setting, which allows you to set how long speech stays on screen.

There is a map in the bottom left-hand corner of the screen which guides you around the three planets and Cloud City. However, because it only shows you Jack's immediate surroundings, for example the room he is in, it is really only useful if you need to get to the nearest entrance or exit in a hurry, achieved by clicking on arrows that are on the map.

There is a inventory area which shows all the gear you are carrying and you can pick up and use objects from this window. You can also place objects in Jack's pocket which means that a lot of kit can be carried. Some items need to be combined to be used and this is done in the Inventory panel. There is also a status window where you can see just how well you are doing in your quest for wealth.

At the beginning you simply have to acquire objects and swop them for others, increasing value each time. Later on things get more complicated when objects have to be combined. The first rule of thumb when playing Jack T. Ladd is to steal first and think later. Scruples get you nowhere.

IT'S A FAIR COP

Generally, the background graphics are good in *Innocent Until Caught* but you expect this from graphic adventures these days. Jack T. Ladd himself is nothing special. The animation is good on his character, but it is spoiled by a slow update that is frustrating when you try to pick up an object. Jack's hand tries grabbing at the object to pick it up, but he seems like he just does not want to.

Your enjoyment of the game will, to a certain extent, depend on your appreciation of its humour. This is wry and rather sarcastic, and, dare I say, quite sexist. I know that it won't suit everyone.

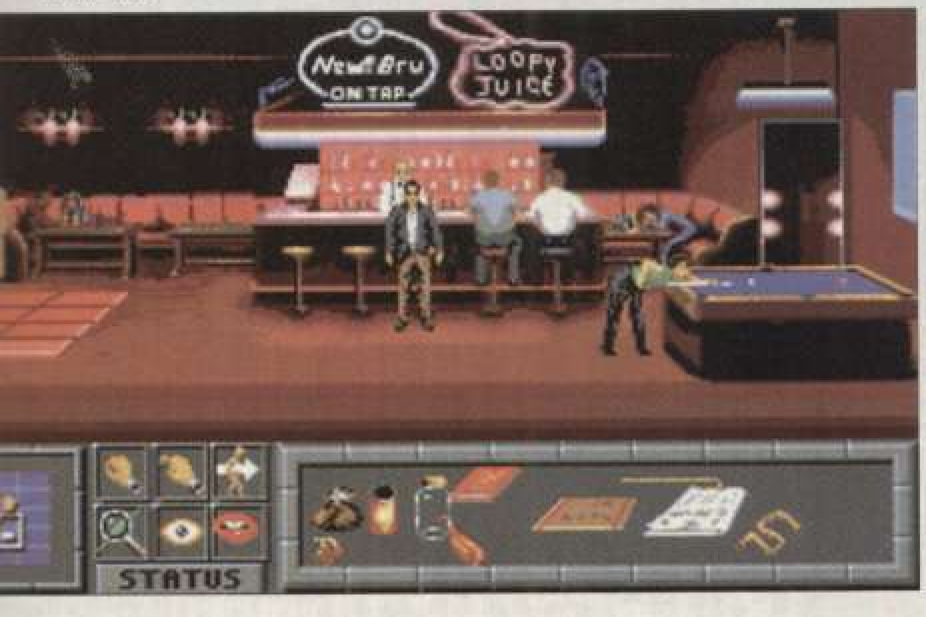
Innocent Until Caught suffers, to a certain extent, from being produced by a company that is much better known for its arcade and platform games than its adventures. Yes, there are some inventive features and interesting, even funny situations, but the game seems to lack a hook, something exciting that'll keep you up until the small hours playing it. Pity. CU

GUILTY WITHOUT A DOUBT

Innocent Until Caught is an okay game. It can be taxing and is spiced up with the occasional funny joke (however, after a while these become annoying and a bit repetitive). Overall, there is nothing new to excite the apprentice adventurer and there isn't a lot of challenge for the experienced one either.

If you are running it from the floppy drive you'd better get used to disk swopping because at the beginning there is at least 10 disk swops during and after the intro. Luckily, while playing this is kept to a minimum.

Innocent Until Caught has some unusual characters, a smattering of love interest and some complex puzzles. But is that enough?



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TEAM:	IN HOUSE
CONTROLS:	MOUSE, KEYBOARD
NUMBER OF DISKS:	10
NUMBER OF PLAYERS:	1
HARD DISK INSTALLABLE:	YES
MEMORY:	1Mb

GRAPHICS	84%
SOUND	68%
LASTABILITY	80%
PLAYABILITY	76%

> *Enjoyable, but could have been better.*

OVERALL 78%

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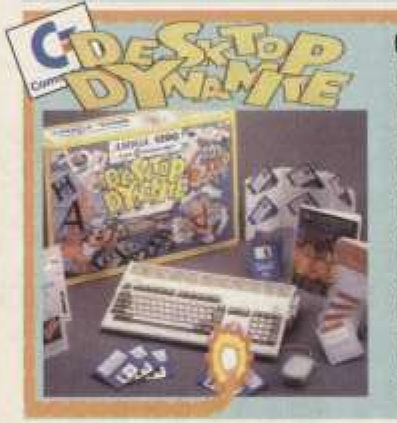

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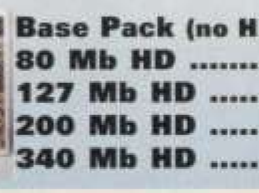

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The 4000-030's & 040's are powerful, packed with features and represent excellent value for money.

ALL AMIGA 4000's now come with Deluxe Paint IV (AGA) Wordworth V2 (AGA) and Wordworth Print Manager! Unbeatable value for money!

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HD	CHIP RAM	FAST RAM	PRICE
130Mb	1Mb	1Mb	...£979.99
130Mb	2Mb	2Mb	...£1079.99
214Mb	2Mb	4Mb	...£1179.99
540Mb	2Mb	4Mb	...£1471.99

4000-040LC (desktop) 25MHz 68040 LC

HD	CHIP RAM	FAST RAM	PRICE
214Mb	2Mb	4Mb	...£1619.99
525Mb	2Mb	4Mb	...£1864.99

4000-040TW (SCSI Tower) 25MHz 68040 TW

HD	CHIP RAM	FAST RAM	PRICE
214Mb (IDE)	2Mb	2Mb	...£1962.99
525Mb(SCSI-II)	2Mb	4Mb	.....£2256.99
1Gb(SCSI-II)	2Mb	4Mb	...£2551.99

All come with a 24hour on-site-response maintenance guarantee from ICL, one of the UK's Largest computer repair contractors.

4000 ACCESSORIES

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- 8Mb 32bit-SIMMS...£349.99
- 68882 25MHz Fpu.......£74.99
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A1200 HARD DRIVES UPGRADES

COMPUTER WORLD offer a FREE fitting service in store for Hard Drives to the A1200/A600 Ask for Steve or Chris.

This Service is available seven days a week. Add £20 for additional warranty (only available from date of original purchase if proof of purchase is supplied). This service has already proved popular with hundreds of COMPUTER WORLD customers.

All 2.5" IDE Hard disks offer fast access time and supplied by leading companys like Western Digital/Seagate. Pack includes cable screws and software. 1yr warranty on all models!!

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11 m/seconds access time, lightning quick

PCMCIA FAST RAM EXPANSION

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GVP A1200 ACCELERATORS

GVP A1230 VERSION 2

FOR THE 1200 Runs at 40 and 50Mhz, up to 32 Mb of 60ns RAM, optional 50Mhz fpu, has a battery backed clock, has a new feature connector allowing easy addition of warrnty safe upgrades,(the first upgrade will be a SCSI controller) is also a 16-bit sound sampler, with direct to hard disk recording and video modules.

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40MHz	4Mb	-	.....£439.99
40MHz	4Mb	68882	..£537.99
40MHz	8Mb	-	...£634.99
50MHz	0Mb	-	....£369.99
50MHz	4Mb	-	.....£564.99
50MHz	8Mb	-	...£763.99

HAWK-A1200

RAM BOARD & ACCELERATOR

1. Battery backed clock 2. Two year warranty 3. Upgradable to 8Mb with 32-bit simms 4. Option to add f.p.u.

POSSIBLE CONFIGURATIONS

RAM	FPU	PRICE
1Mb	--	£97.99
1Mb	20MHz (68882)	£147.99
2Mb	--	£126.99
2Mb	33MHz (68882)	£194.99
4Mb	--	£194.99
4Mb	20MHz (68882)	£244.99
4Mb	40MHz (68882)	£294.99
8Mb	--	£384.99
8Mb	40MHz (68882)	£479.99

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FOR THE A500/500+

GVP IMPACT SERIES II Hard Drives, the fastest Hard Drive/Controller for the Amiga. Features Game Switch, external SCSI port, FAAASTROM SCSI Driver, GVP's custom VLSI chip and internal RAM expansion up to 8 meg! Using high spec fast-access QUANTUM Hard Drives with 2 yr. guarantee.

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Expand to 2Mb using trapdoor expansion port. Boards have 2 yr replacement guarantee.

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STOCK IS AVAILABLE 12th JUNE 1994

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1. Phone telesales where your order will be logged and your details taken.
2. You will then be given a unique reservation number.
3. Your order details will be filed, BUT no money will be debited until the day of despatch.
4. We will contact you prior to despatch to confirm that your order is still required

WHAT YOU GET...

PHILIPS 8833 MKII CGA 14" Full Colour Monitor • 1 year on-site warranty • FREE connecting cable ADD £4.99 for dust cover ADD £10.00 for monitor stand.

ALL FOR....£239.99

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14" Monitor Ideal for A500/500+600/1200 • 1 year warranty. Add £10.00 for monitor stand

COMMODORE 1942........£339.99
14" Monitor Ideal for A1200/4000, AGA, 28mm Dot Pitch, Tilt 'n' swivel stand, Built-in Stereo Speakers, Works with ALL Amigas in most resolutions. 1 years warranty.

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14" 0.28mm Dot Pitch, CRT 15-40Khz with digital memory sizing.

Autoscan 1438........£299.99
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MONITOR ACCESSORIES-

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FOR THE A1200

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95% Amiga Gold Features include: 300 dpi. • Min 80 page Auto sheet feeder • minimum 3 pages per minute

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For BJ 10 ex/sx

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2. Are they on demonstration in store?
3. Do they supply OFFICIAL printer drivers?
4. Do they supply everything you need for immediate operation ie printer cable, paper etc.?
5. Can the dealer supply the authorised consumables
6. Will the dealer be able to offer after sales service?

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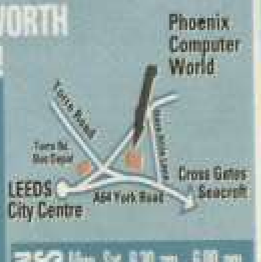

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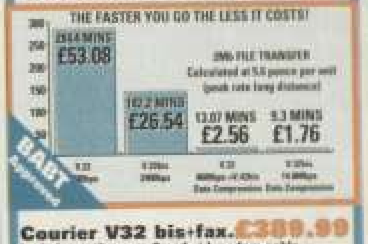

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Courier HST Terbo £594.99

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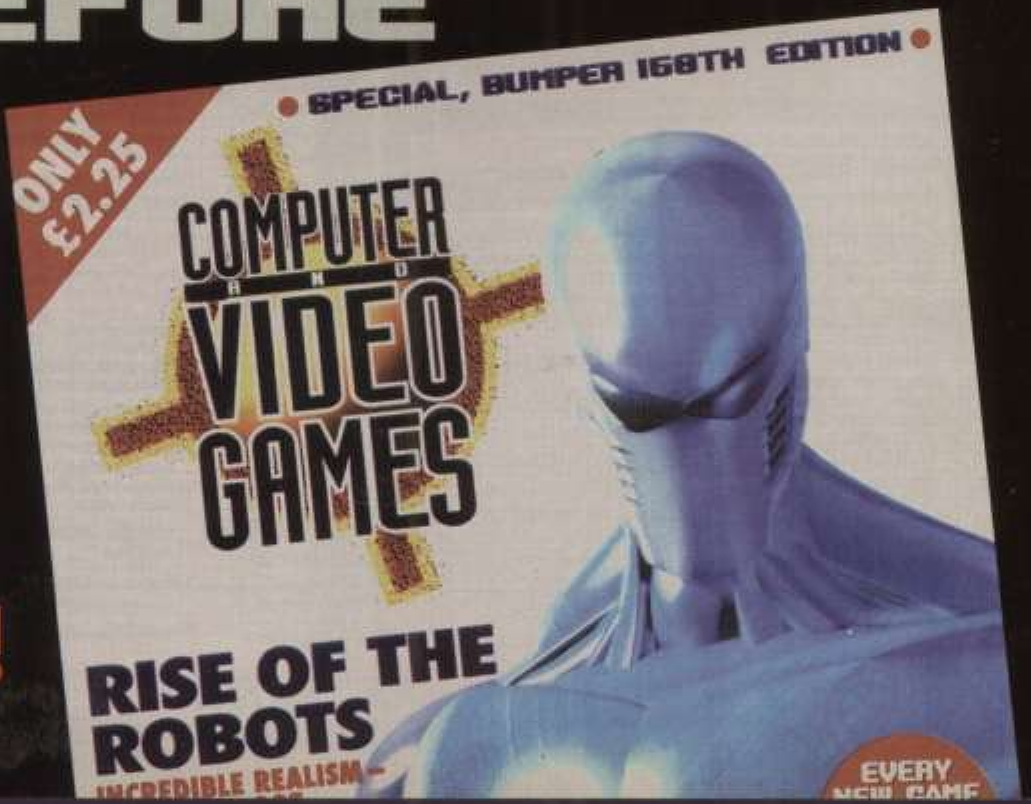
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HOW TO USE THIS AD

Exclusively from Hobbyte, you can choose your own Amig
and software combination and still benefit from the hug
savings only available from package deals.
Want an A600 pack for small children? No problem!
A professional pack for music or programming? It's up to you

CD PHOTO/GRAPHICS PACK FOR A4000

Take high quality images from CD (CDTV, CD32 or your own photographs processed onto KodakTM Photo CD) and input them for manipulation into any DTP or Art package in any IFF file format. Software provides full image processing and output support for 24-bit display cards such as Picasso, Retina, Picollo, Opal Vision, etc.

DTP YOUR OWN PHOTOS

System includes: Toshiba CD ROM drive, SCSI II control and software £594.90

or when purchased at the same time as A4000 .... £569.90

Amiga 4000 memory	4MB SIMM	£159.99
Display Cards	Picasso 2MB	£309.90
	Retina 4MB	£459.90
Image Processing s/w	Art Dept Pro 2.5	£129.00
	Image FX	£179.90
Photo-Realistic Printing	Primera Colour Printer with 100 Print Pack	£899.90

OLD AMIGA TRADE-IN*

The best trade-in allowance, extra for peripherals and accessories. Trade in your old machine for a brand new A600/1200/4000/CD^{32} or even a PC.

After trade-in, equipment is checked and refurbished by our engineers and is then offered at bargain prices, complete with 3 months warranty.

A500s FROM £139
A1500s FROM £199

A600 SD/HD	from 159	HDs + Controllers	from 179
A3000s	from 499	GVP HD8 40/52	209/229
CDTV	179	XT/AT BBoard	50/91
A590 20/40MB	129/159		

OTHER ACCESSORIES - PLEASE ASK.

*Acceptance of pre-V2 machines may be limited

A500/600

REFURBISHED UNITS ONLY AVAILABLE

INCLUDED	AS STANDARD	ALONE £	PLUS STARTER £	WARRANTY	EXTRAS
A500+ CARTOON CLASSICS	Captain Planet, Lemmings, The Simpsons, DPaint III*	194.99	209.99	12 months return to base	Extra 1MB £25
A600 SD WILD, WEIRD AND WICKED	Silly Putty, F1 Grand Prix, Pushover, Deluxe Paint III*, 700 clip art set	194.99	209.99		Extra 1MB £30 • 2Mb PCMCIA £109 PCMCIA £169 Romsharer £45
A600 HD 85 EPIC	Epic, Rome, Myth, Trivial Pursuit, Amiga Text, Deluxe Paint III*, 700 clip art set	334.99	349.99	12 month at home	

Return to base HD versions are SD units fitted with top quality 3rd party drives and come with install disc + full documentation. *DPIII needs 2MB for animation on HD models.

NO OTHER DEALER CAN BEAT OUR CREDENTIALS

- Multi-million company with 10 years experience in Commodore product and here to stay
- Commodore trained staff are friendly and helpful and are parents, multimedia, educational, games, programming or technical specialists (usually more than one!)
- Open 9-6 pm Monday to Saturday and 10.00 am to 4.30 pm Sundays PLUS December late nights on Thursdays (St Albans only) for convenient shopping.
- Callers welcome for advice and demonstration at our 1600+ sq ft High St, Town Centre branch
- Same day despatch for most orders received by 5.30 pm; express am and Saturday services available
- Hardware carefully handled and delivered safely and reliably by caged, insured, top name courier service
- Pre-despatch testing on Amiga systems
- Free 30 day courier collection and delivery of NEW replacement.(except product with on-site maintenance)
- Hotline support and in-house engineers
- Upgrade and trade in offers to keep you up to date
- Exceptional after sales service
- BFPO and export welcome

NOT JUST ANOTHER MAIL ORDER COMPANY

For years a major player in Amiga Mail Order, Hobbyte also boast extensive expertise and experience in specification and support of multi machine and specialist systems. Hobbyte have been recommended and trained by Commodore and successfully won major orders and support contracts from London Boroughs, MOD, educational establishments etc. We are pleased to be placed on tender lists. This expertise is available to all our customers.

A4000/ 30 & 40

A4000/30: AGA Chip Set + 68030 processor, 68882 25/50 MHz co-processor option, 256,000 colours from 16.6M, scan doubling for flicker free display, Mouse, Amiga 3.5"/1.76 MB 3.5" drive, Hard Drive as below, Amiga DOS 3.0 system and utilities.

A4000/40LC: Desktop as above, but featuring the blistering 68040 processor, with full floating point facilities.

A4000/40TW: Tower with full 040/FPW/MMU processor with SCSI-II & IDE 1/Faces. All above, full UK models with next day on-site

WITH FREE DPAINT IV AGA + [illegible] 3 AGA - DIGITA PRINT MANAGER

WARRANTY UPGRADES:

Same Day Warranty £39.99

3yr Ext. Warranty £99.99

	A4000/30			A4000/40LC	/40TW	
HD SIZE MB	1+1MB SUBTRACT £60	2+2MB STANDARD VERSION	2+4MB SUPER EXP. VERSION	2+4MB	2+4MB	EXTRAS
80	WARNING - 1 + 1MB A4000s will not run most serious AGA s/w packages. If required, subtract £70 from 2 + 2MB prices	989	ADD £80 • ADD £80 • ADD £80 • ADD £80 • 2 + 4 MB version comes with 2MB chip RAM + 4MB chip of fast RAM, for on-board expansion to 16MB	-		Extra 2MB for 2+2 versions £99 • Extra 4MB for 2+4 versions £159 • 68882 copros - see 'Expansion' (across) • 128MB SCSI Optical Drive for backups £599 • Microvitec Autoscan 1438 monitor recommended £290
120/130		1059		1589		
214		-		1629	1979	
240/260		1089			-	
340		1189			-	
520/540		1389		1869	2159	
1GB		-		-	2579	
2GB		-		-	3249 SCSI-II	

PRICE CHANGES TELEPHONE FOR INFO

SEE 'EXPANSION' SECTION OPPOSITE
+ PHOTO GRAPHICS PACK SEE TOP LEFT

CD^{32} CONSOLE
SPECIAL

Choose any* 3 CD discs (see software section) for **£59.90** *up to £34.99 RRP each

CD^{32} SOFTWARE

Over 75 titles specially written for the CD^{32} should be in stock (phone for list), inc. Syndicate, Zool 2, Jurassic Park, Chaos Engine, many of which include a full CD music track alongside the game. About half of existing CDTV titles are compatible. CD^{32} will also play normal music CDs and CD+G discs

CD^{32} Standard warranty is 12 months return to base.
12 months on-site warranty £39.99
Extra 2yrs on-site warranty £69.99

CD^{32} Console (with Oscar AGA, Wing Comman Dangerous Streets, Diggers +Joypad FREE

£279

Now with CHAOS ENGINE and MICROCOS

CD^{32} + FMV Card as above

£425

AVAILABLE NOW!
Full Motion Video module for CD^{32} (with Free Music Video Disc) £18

COMING SOON
Floppy drive, Keyboard, Mouse CD^{32} for A1

A1200

2MB Single Drive	269
+20MB HD	359
+60MB HD	419
+80MB HD	429
+120MB HD	479
+200MB HD	529
+340MB HD	679
Extra 4MB + clock fitted	ADD £200

**CBM APPROVED HARD DRIVES
Full legal installation/utility disc and documentation and come with CBM on-site warranty service.

DON'T FORGET YOUR STARTER PACK! ADD £15 (SEE VALUE PACKS BELOW)

WITH ANY COMPUTER

CHAOS ENGINE, SYNDICATE, PINBALL FANTASIES, NICK FALDO'S CHALLENGE GOLF
ADD £17.99
OR LEMMINGS, SIMPSONS, CAPTAIN PLANET, PLUS D PAINT III
ADD £14.95

SPECIAL
Citizen ABC 24 pin colour printer with sheetfeeder and Starter Pack .... **ONLY £170**

**NIGEL MANSELL A
TROLLS AGA AN
COMPILATION PA
3 Top games
ADD £9.9**

**DESKTOP DYNA
PACK PLUS
2 HOT LIST TIT
ADD £44**

**KIND WORDS
ADD £9.9**

**WORKS PLATIN
ADD £19.9**

**NEW
COMBAT/
INNOVATIONS PA
ADD £44**

HOBBYTE VALUE PACKS

Hobbyte are famous for their packs, allowing you to choose what you want, whilst still benefitting from package deal savings.
Remember, a bargain is only a bargain when you like what you get! So, if you aren't Wild, Weird or Wicked, Sleepwalker sends you to sleep, Space Ace leaves you feeeling
Paradroid does worse, if Basic basically isn't you, exercise your options and get real value for money from Hobbyte

TRAMPY'S AND NODDY'S PACK

Fun and educational for 2 to 11 years
(Some help may be required)

SPECIAL WITH AMIGA **£39** ALONE **£59**

Noddy's Playtime OR Big Adventure OR Merlins Maths	8 magical learning games at 3 levels, PLUS Junior Art pack, keyboard overlay and map 6 National Curriculum oriented games, stage 2, 7 to 11
The Shoe People OR Fun School 2	6 games with Trampy and friends, 6 years and under. The "Fun School" suite have won every award going. 5/6 wonderful animated games. 3 to 11 years, specify age.
Fun School 3 or 4 OR ADI Jnr Reading OR Counting	The loveable extra terrestrial entertains 4 - 7 year olds and helps towards achieving National Curriculum levels 1, 2+ 3
Deluxe Paint II + 700 Clip Art pics	Pics inc. children, Fairytale + Legend characters, Sport, Cartoons, etc.
Hobbyte Primary Educational PD Pack	Containing 10 fun while you learn games
Hobbyte 30 Easy Children's Games Pack	Simple games, or those with very easy levels. Even the youngest will be able to use some of these

SERIOUS USER'S PACK

Interested in music, programming and graphics? Then this pack is for you!

WITH AMIGA **£39** ALONE **£49**

Easy Amos	THE programming language. Wonderful manual is simple and entertaining - ideal for complete novices
OR AMOS Professional ADD £10 for this option	97% AF rating - the second highest rating EVER given. Learn to professionally create your own games, utilities. Loads of sample progs included
Hobbyte AMOS PD Greats	Dozens of utilities, Protracker music modules, example programmes that no AMOS programmer would be without.
Deluxe Paint III, plus 700 Clip Art pics	Create your own designs to incorporate into your AMOS progs
MIDI Recording Studio & MIDI Interface	If you have a MIDI instrument, this is everything you need to compose and edit your music
OR AmigaVision	Powerful presentation and production tool

KIND WORDS 3 ADD £9.99

WORKS PLATINUM ADD £19.99

STARTER PACK

A must for new users! All you need in one value pack

WITH AMIGA **£15** ALONE **£25**

10 blank discs	Make working copies of Workbench and other original applications discs as soon as you get them
Virus Killer	Check discs regularly, especially if sharing with friends
Mouse mat	Helps prevent dirt/dust collecting on mouse contacts
Plus Microswitched Joystick, 80 cap. lockable disc box, Dust Cover	

HOT BUG GAMES PACK

The top-selling Hobbyte Hot Lot pack now includes the ultimate joystick !!!

WITH AMIGA **£44** ALONE **£59**

"THE BUG"	The only joystick **ever** to be given a Gold rating **92% AF**, positive single-handed action, small and lovely!
10 "Hot List" Games The GREATEST!	See listing to the right for current **HOT LIST**, or phone for latest changes. Children's games available.
80 Prog. Hobbyte PD Greats Pack II 10 blank discs, mouse mat, 80 capacity lockable disc box, plus dust cover	Includes top games like Battlecars, Star Trek, Computer Conflict, Megaball, dozens of arcade classics, board classics and 'shoot-em-ups', Utilities, Word Processor, Spreadsheet, Database + Desktop Publisher and the ultimate virus killers - a must for every Amiga owner!

DESKTOP DYNAMITE EXTRA

**Wordsworth 2 AGA.
Deluxe Paint IV AGA
Digita Print Manager
Dennis the Menace AGA
Oscar AGA
Trolls AGA
PLUS
2 'Hot List' titles**
YOUR CHOICE - SEE ACROSS

SPECIAL WITH AMIGA **£44** ALONE **£59**

Wordsworth + Deluxe Paint IV are top packages in their fields, EACH with RRP's almost twice the total pack price. Together they can produce high quality documents including graphics in up to 256,000 colours

NEW COMBAT/INNOVATIONS PACK ADD £44

THE HOT L

**GREAT individ
packaged ga
BETTER THAN
REST !!
(previous RRPs
£39.99 eac**

ANY 10 £29.

Or see packs acros
Thunderbirds (7yrs+) ‡ -
Silly Putty - 90%+ lots of
Elf/Toki/Puzznic (counts a
Paperboy II ‡
Die Hard 2
Colossus Chess @
Challenge Golf
Battleships classic board g
Graeme Souness Socc
Neighbours
Frankenstein ‡ @
Captain Planet
Silkworm Helicopter @
Tag Team Wrestling
Edd the Duck ‡
Stack Up ‡
Lemmings 92% A
Round the Bend ‡
Fist Fighter
Sporting Triangles
World Cricket
Bart Simpson
Spiderman/Cptn America
Arcade Trivia
Xenon - C+VG Game of th
Blade Warrior - A Power, AF
superb reviews
Arnie
AWARD WINNER
Space Ace, Kick Off, PipeMania
(counts as 2)

**‡ PARTICULARLY SUITA
CHILDREN (MAY NEED
@ NOT A1200 COMPA
TITLES MAY VAR**

*DPIII needs 2MB for animation o

• AMIGA SPECIALISTS • STAR GOLD DEALER • CDTV CENTRE • PHILIPS APPOINTED DEAL

MONITORS/ACCESSORIES

1084SD 1084/1085 + leads	194.90
1942 dual sync .28 dpi AGA monitor + speakers	339.90
CROVITEC AUTOSCAN 1438 14" .28dp low radiation 15-40kHz for 1200/4000, infinately variable scan rates between 15KHz (default on boot-up) and 40 KHz for all AGA modes in this range. With tilt and swivel stand	294.90
Microvitec Cub-scan 1440 14" .28dpi (with full screen control)	399.90
Microvitec Cub-scan .28dpi for 1200/4000 as above, but 20"	1039.99
Microvitec Cub-scan .1782, 17" .27dpi, 29-82 KHz horiz. scan	889.99
Adaptor for A1200/Microvitec (not required for 4000)	19.99
nasonic 1537 31-62kHz 14"	519.90
Brilliance 2110 21"	1790.90
Speakers	37.90
Pro Speakers	57.90

FLOPPY DRIVES

3.5 external drive, daisychain + on/off	48.50
AMITEK (Sony) 31/2" Ext. Drive anti-click/anti-virus	56.50
with anti click + Blitz back up and virus protector, Cyclone compatible	75.99
drive as PC 880B	124.99
density 1.76MB ext. drive for any Amiga (WB 2)	88.50
density 1.76MB ext. drive for any Amiga (WB 2) + 10 HD Discs	94.95
internal floppy for500/600/1200	84.90
replacement internal floppy	39.99
/1200 replacement internal floppy	39.99

ARD DRIVES/ACCELERATORS

/2000

HC8/80MB	239.99
HC8/120MB	289.99
HC8/170MB	319.99
HC8/270MB	379.99
030 40MHZ 4MB	564.99
040 33MHZ 4MB	999.99
MB for above	POA
SCSI 80MB HD	234.90

/4000

SCSI II controller for 4000	299.90
4091 SCSI II	269.99
int. SCSI optical drive	599.90
discs for above	34.95
80MB	119.99
120MB	179.99
170MB	199.99
240MB	239.99
340MB	299.99
540MB	599.99
opticaldrive for backups	619.90
fitting - fitting by our engineers ADD	£15

HB 40MB	392.00
HB 80MB	489.00
HB 120MB	589.99
HB 213MB	693.99
6882	218.99
VXL30 25MHz	219.99
40MHz	339.99
80MB	249.99
120MB	299.99
170MB	329.99
270MB	389.99
HDR REFURBS AVAILABLE	FROM £169

A590 20MB	139.90
A500 Internal 20MB HD	184.99
A500 Internal 60MB HD	249.99
A500 Internal 80MB HD	279.99
A500 Internal 120MB HD	339.99
Trifecta SCSI 80MB HD	289.99
A570 for 2.04 1MB 500 + **FREE** Fred Fish & Hutchinsons Encyclopaedia	98.90

A600/1200

GVP M1230 II 40MHz	239.90
GVP M1230 II 40MHz 4MB	439.99
GVP M1230 II 50MHz 4MB +MMU	559.99

A600/1200 HD UPGRADES

	SELF FITTING* (on-site invalidated)	CBM APPROVED FITTING** (with on-site)
20MB	89.99	-
60MB	149.99	199.00
80/85MB	169.99	234.00
120/127MB	219.99	274.00
170MB	254.99	314.00
240/250MB	329.00	499.00
INTERNAL CLOCK		POA

*with cable & disc ADD £14.99 for Hobbyte fitting
**Including FREE courier collection & delivery

1200 OVERDRIVE EXTERNAL HDs

Overdrive 35 NO HD	139.50
Overdrive 35 80MB HD	237.50
Overdrive 35 120/130MB HD	297.50
Overdrive 35 220/260MB HD	337.50
Overdrive 35 340MB HD	417.50
Overdrive 35 540MB HD	POA

AMIGA 24 BIT HARDWARE

TOASTER COMING SOON!

DCTV	376.99
GVP IV + VIU-S	965.99
GVP IV + VIU-CT	1255.99
Impact Vision 24	POA

HARLEQUIN 32 BIT FRAMEMAKER BOARD

• **16.7 million colour** photo realistic display • **real time 24 bit animation** • **Optional Alpha Channel** - superimpose high quality graphics onto live signal, or smoothly blend paint images • **Optional Double Buffering** - 2, 24 bit displays instantly available

SUPPORTS: TV Paint, Vlab, Caligari, Sympatica, Ad Pro, Real 3D + others

H1500 1.5MB	£929
H2000 2MB + Alpha	£999
H3000 3MB +D/Buffer	£1099
H4000 4MB + Alpha +D/Buffer	£1279
Genlock	£199

*SPECIAL £400 OFF

*H2000 Plus	£1479
*H4000 Plus	£1149

+ HPsFX for real time adjustment of colour, gamma, etc.

AMIGA NETWORKING PHONE!

PICASSO 24 BIT GRAPHICS CARD + FREE TV PAINT JUNIOR **£324.99**

PICCOLO 24 BIT GRAPHICS CARD
16.7 million colours, on-board blitter, 1MB exp to 2MB video RAM, fully programmable resolution, double buffering + multiple screen + AREXX support. Supports leading graphics packages/applications. With FREE TV Paint Jnr **£379.99**

RAINBOW III 24 BIT GRAPHICS CARD + VIDEO CONTROLLER ... **£1489.99**
Similar to Piccolo but with 4MB video RAM, programmable resolution to 1600 x 1280, built in video controller inc. 110MHz clock. With FREE TV Paint Jnr.

PEGGY MPEG VIDEO CARD **£479.99**
Take 24 bit animations from disc or other storage devices and replay in real-time through the Amiga! Use integrated genlock to overlay Amiga graphics for sophisticated titling and special effects, to produce stunning promotional/training videos, or games with live video footage. Near SVHS quality, 16.7M colours, MPEG tools + library functions, 25 frames/sec playback.

YC Output module for Peggy	£129.99
MPeg encoder option for Peggy	£349.99

OPAL VISION (for 3000/4000)
24 bit board v2+ Opal Paint, Opal Presents, Opal Hotkey, Opal AnimMATE .. £339.99
IF YOU HAVE PURCHASED OPALVISION, YOU MAY HAVE RECEIVED VOUCHERS AGAINST THE FOLLOWING NEW PRODUCTS, WHICH WILL BE ACCEPTED BY HOBBYTE IN PART PAYMENT

Video Processor for Opal Vision WITH VOUCHERS	647.99
Video Suite for Opal Vision WITH VOUCHERS	647.99
Scan Rate Converter for OpalVision WITH VOUCHERS	647.99
Retina 24 bit graphics card + 1MB + VD Paint	329.00
Retina 24 bit graphics card + 2MB + VD Paint	395.00
Retina 24 bit graphics card + 4MB + VD Paint	489.00
V lab 24 bit real time digitiser 1200/600/500 ext	334.99
V lab 24 bit real time digitiser 1500/3000/4000 int	289.99
V Lab 4000/3000 int SVHS	334.99

FREE V lab Framegrabber with Harlequin (see above)

EMULATION

G Gate 386sx 25MHz	POA
GVP 40/4 for 1500	945.99
AT Once	214.99
386/486 Bridgeboard	POA
Emplant Deluxe	389.90

SCANNERS & DIGITISERS

Epson GT 6500, 600dpi 24 bit A4 inc. ASDG Scan s/w + cable	679.00
Epson GT 8000,800dpi 24 bit A4 inc. ASDG Scan s/w + cable	889.90
Transparency Adaptor for above	499.00
Power Hand Scanner, 400 dpi, 64 Greyscale, V3 Powerscan software	98.90
Power Hand Scanner 4 256 Greyscale + s/w	118.99
OCR software for Power Scanner	48.50
Power Colour Hand Scanner V4	238.49
Sharp JX 100 A6 Scanner + scanlab s/w up to 18 bit	469.99
Summa Sketch II A4 with s/w/A3 Tablet Digitiser	359.99/....529.99

GENLOCKS/MODEMS

Rendale 8802 (1200 compat)	139.99
Rendale 8802 FMC	159.95
Rendale 8802 SVHS ("Fred")	249.99
Rendale 8806	469.99
Hama Genlock 292	283.90
Hama Genlock S290	689.99
GVP G-Lock	283.90
Rocgen+ 1200 compat	138.50
Rocgen Rockey	289.99
Rocgen +Rockey Bundle	419.99
Supra 2400 Modem	78.95
Supra Fax Modem	148.90

ACCESSORIES & DISCS

A500/600/1200 printer centre	28.99
A500/1200 control centre	34.90
A600 control centre	27.90
Brickette CDTV Joystick adapt.	39.99
10 Blank DS/DD discs in box	4.99
10 Blank DS/HD discs	6.99
A520 Modulator	29.99
Amitec Modulator	34.99
Alien/Batman/T2 Joystick	10.99
Bug Joystick	11.99
CDTV Keyboard	54.99
50 Blank DS/DD discs	17.99
50 Blank DS/HD discs	27.99
Disc Expander	34.90

EXPANSION

A500 512k Ram Exp+Clock	21.99
A500+ 1MB exp	29.99
A500+ 2MB, exp. to 8MB	149.99
A601	37.99
A600/1200 2MB exp (card)	115.99
A600/1200 4MB exp (card)	169.99
CDTV 1MB exp + Super Agnus	157.99
A500 Rom Sharer 1.3	37.95
A500 Rom Sharer 2.04	38.95
A600 Rom Sharer + 1.3	49.95
A2065 Ethernet Card	229.95
PC 1208 bare + clock	65.90
PC 1208 2MB	137.90
PC 1208 4MB	197.90
PC 1208 8MB	396.90
MBX 1200 bare	64.90
MBX 1200 2MB	134.90
MBX 1200 4MB	194.90
MBX 1200 8MB	379.90
Amitech Hawk + clock 2MB	133.50
Amitech Hawk + clock 4MB	193.50
Amitech Hawk + clock 8MB	396.50
see below for FPU's	
68882 25MHz + crystal	79.90
68882 33MHz + crystal	95.00
68882 40MHz + crystal	129.00
68882 50MHz + crystal	159.90
CBM 2.1 upgrade kit	74.99
Chip fitting and board upgrade avail., by our qualified engineers	**POA**

FPUs- SEE BELOW

FPUs- SEE BELOW

PRINTERS

2YR WARRANTY WITH CITIZEN

	ALONE	WITH STARTER PACK
Citizen 120+D	111.99	
Star LC 100 9 pin col	113.90	
Citizen 90 mono*	131.49	
Citizen 90 colour*	149.99	
Star LC200 col	178.49	
Star LC 24-20 II	144.99	
Star LC 24-100 24 pin	119.90	
Star LC 24-200	179.99	
Star LC 24-200 col	199.49	
Panasonic KXP 2123 col	179.49	
Epson LQ 100	147.99	
Epson LQ 150 colour	209.99	
Epson LQ 570	231.99	
Epson LQ 870	439.90	
Epson LQ 1170	507.90	
Citizen ABC Mono	143.99	
Citizen ABC colour +s/feed	159.99	
Citizen S200 24*	184.99	
Citizen S200 24 col*	199.99	
Citizen S240*	224.99	
Citizen S240C col*	229.99	
Citizen S24x col*	325.90	
Star LC24 - 30 Col	188.90	
Star LC24 - 300 Col	229.90	
Citizen col Note. Printer II	269.90	

A D D £ 1 2 . 9 9

	ALONE	WITH STARTER PACK
UNBELIEVABLE INKJET PRICES!!		
HP Deskjet 310	196.49	
HP Deskjet 310 colour	229.99	
Epson Stylus 300	214.49	
Epson Stylus 800	224.99	
Epson Stylus 1000	409.99	
Citizen Projet II	228.90	
HP Deskjet 520	239.99	
HP Deskjet 500col§	319.99	
HP DESKJET 550C§	419.99	
HP Deskjet 560C	459.50	
HP Deskjet 1200C	1149.99	
Canon BJ10SX Port	184.50	
Canon BJ 200	244.99	
Canon BJ 230 A3	329.99	
Canon BJ 330 A3	492.99	
Canon BJ 300	384.99	
Canon BJC 600 Col	519.50	
Canon BJC 800	1426.99	
Star SJ 48	191.99	
Star SJ 144	346.49	
OKI OL 400e LASER	489.90	
Panasonic KXP 4410	489.90	
Panasonic KXP 4430	639.90	
Epson EPL 5200	512.90	
Star LS 5 laser	469.90	
HP Laserjet 4L	579.99	
HP Laserjet 4 MP	1227.99	
Star LS 5ex 5ppm 2 bin	629.90	
Sharp JX 9500 9ppm	599.50	

A D D £ 1 2 . 9 9

Starter pack: 500 Sheets A4 paper, Amiga to printer lead, Universal Printer Stand & Driver
* with Print Manager

PRIMERA COLOUR PRINTER

If you've admired the saturated colours of the Mitsubishi and other thermal wax printers at exhibitions, but couldn't afford the £4000+ price tag, the Fargo Primera is the printer you're looking for. Less than a third of the price of the nearest rival.

Primera offers: • Photo-quality, rich bright colours • Up to 4 times faster than ink jet • Cost per page less than ink jet. • A4, transparencies + T-shirt transfer paper printing

COMPLETE WITH AMIGA DRIVER (WINDOWS OR MAC DRIVER IF PREFERRED) AND AMIGA LEAD	£689.00
PHOTO REALISTIC KIT (10 PRINTS)	£209.00
PHOTO REALISTIC REFILL KIT (100 PRINTS)	£249.00

PHONE FOR PRINT SAMPLES

FULL RANGE OF CONSUMABLES AVAILABLE

§Studio driver/Utility (WB 2 & above) highly recommended ADD £39.95

SOFTWARE

RAPHICS/CAD	
dio 4D	213.99
geVision	17.90
Expression AGA	134.90
Dept. Pro 2.5	129.90
Pro Conversion	48.99
lliance	133.90
SPECIAL £140 OFF	
24	94.90
ligari Broadcast 3	396.90
ine Morph	29.99
[illegible]	74.90
eluxe Paint IV	53.99
eluxe Paint AGA	59.90
isney Animation	56.90
istant Suns	49.49
ssence	44.50
xpert Draw	39.90
allery	39.49
[illegible]	89.90
mage FX V1.5	187.90
magine v2	149.99
mage Master AGA	139.90
CAD Plus	46.99
ight Wave** AF GOLD	769.90
orph +	138.99
al 3D Pro	59.90
[illegible] 3	59.90
eal 3D Classic	78.90
eal 3D v2	374.50
ala HT100	49.99
ala Pro MM211	132.90
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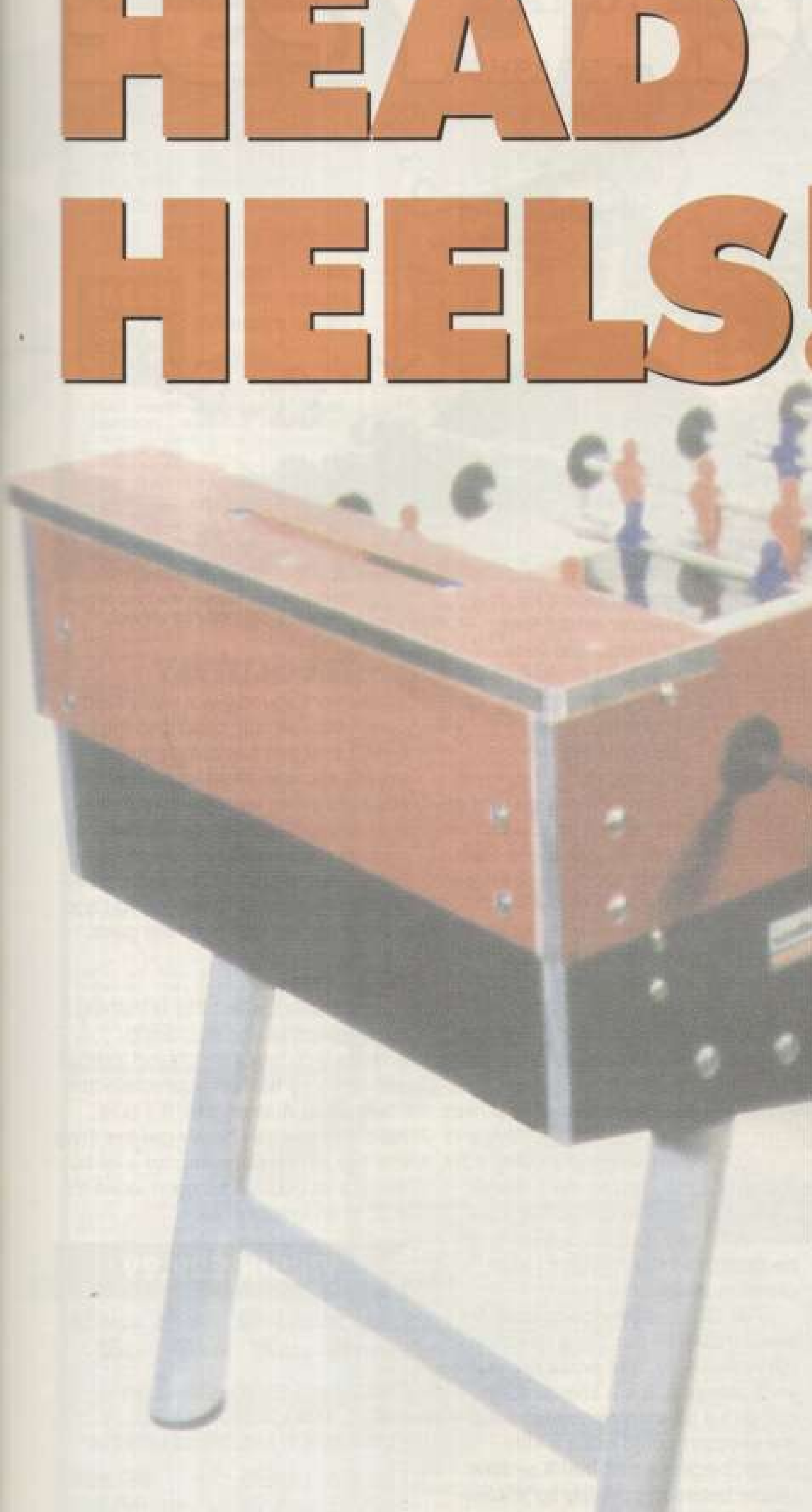

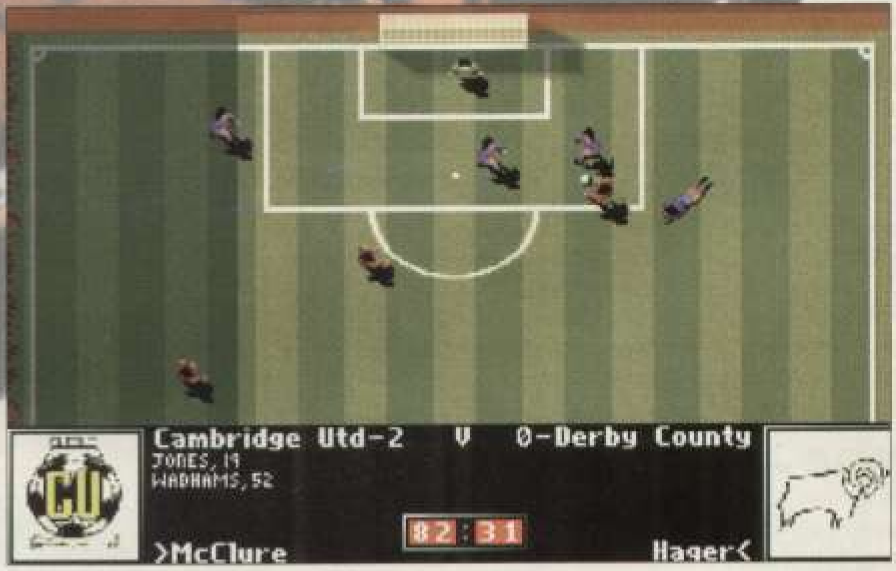

Soccer fever is running at an all time high this month, as various software houses gear up for the World Cup. The Software Business are preparing to unleash Imagine's superb *Club Football - The Manager* onto the public, and by the look of it so far, it's going to be a monster. In it, as usual, you use your management skills to take a team to the top of the Premier division. All the regular hurdles are thrown in to stop you, but unusually, time is also against you – you must retire when you clock up 55 years. You're not getting any younger you know!

To celebrate the release, TSB (the softco, not the bank) have happily provided us with a complete electronic table soccer game, worth £700. This is not an imitation of the real thing... it is the real thing, complete with sliding rods, score counters, a floodlit pitch and everything else you would expect. There are also three copies of *Club Football - The Manager* to be won.

So the question on your lips, as always, is what do you have to do? Just answer this one extremely easy question, and the table could be yours.

How many handles are there on a table soccer game?

Got that? Just scribble it down on the back of a postcard and send it to: Table A Motion, CU AMIGA, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU.

RULES AND CONDITIONS

1. This competition is not open to employees of EMAP or The Software Business.
2. Closing date is 31st May ,1994. So don't bother sending them any later.
3. The editor's decision is final. Stubborn isn't he?
4. No correspondence will be entered into.
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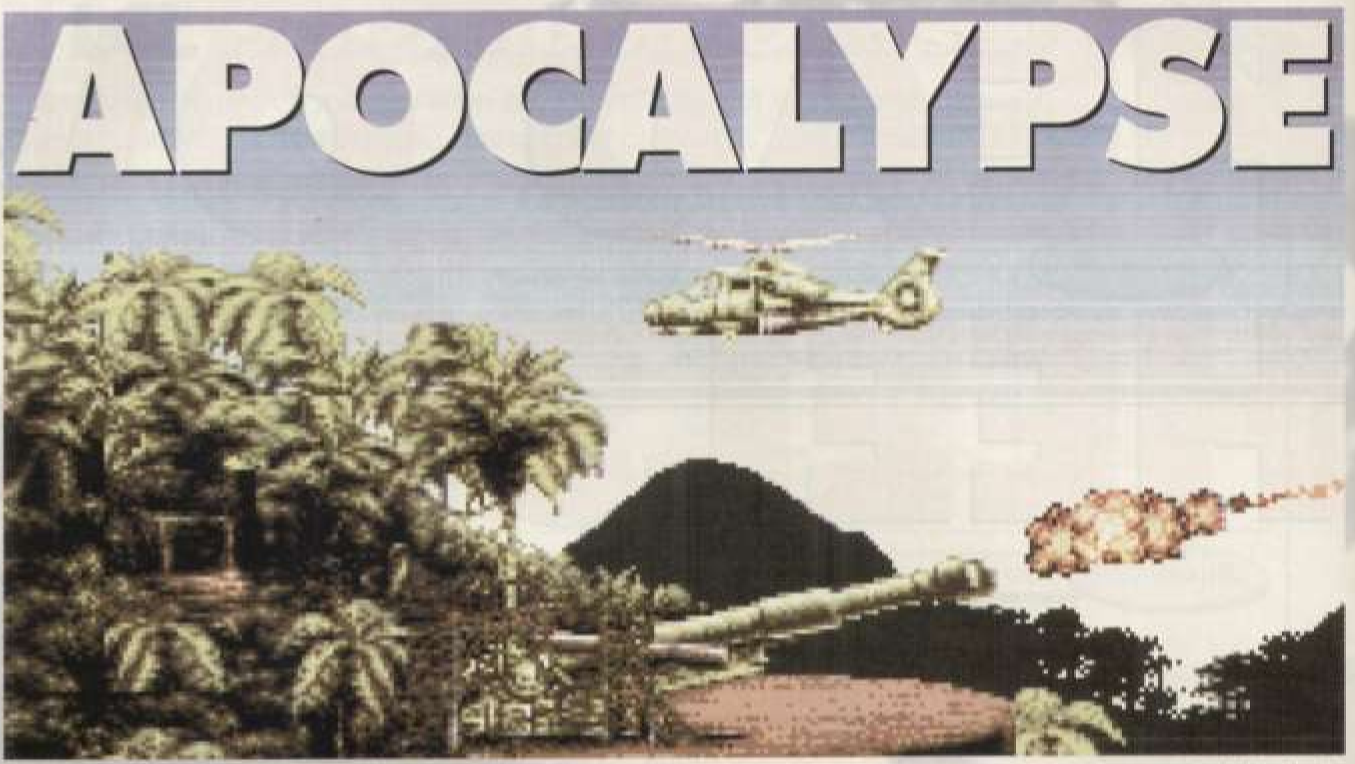
APOCALYPSE



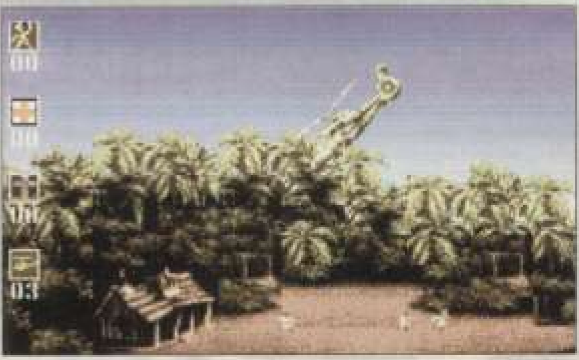
After months of hanging in mid-air, Virgin's big chopper is ready to land. Tony Dillon can do a good impersonation of a helicopter by swinging his hair about, so...

At last, it's here. The one we've all been waiting for. Virgin's *Apocalypse* is now a year late, and many of you have probably forgotten the highly-playable *Choplifter* clone that featured on our coverdisk all those months ago. Quite why it is so late is anyone's guess, but let's forget the history, here's the present.

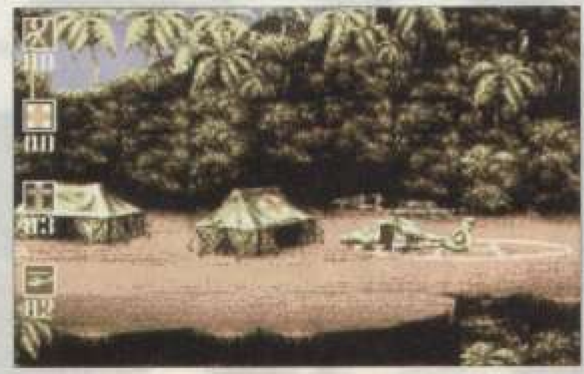
The plot is a standard tale of ruthless dictators, violent warzones and one man armies that used to feature so highly in the arcade machines of yesteryear. You go out into enemy airspace in your slightly-armed 'copter, and take on the whole of the opposing army, rescuing POWs and doing all the other heroic things you are normally expected to in these situations. There's a familiarity about this sort of game that always drags me back to the days when I would shamelessly shovel my pennies into gloriously-painted cabinets in the arcade halls.

WAR – WHAT IS IT...

However, there is one major difference between the good old games and this – *Choplifter*, and its many incarnations, were playable, exciting and most of all fair. You always had a chance to beat the enemy, no matter how slight, and the game was always a test of your reactions and skill – not luck. You see, it doesn't matter how fast you can switch directions on the joystick, the only way to finish the first level of *Apocalypse* game is by pure luck.



Destroying the huts dotted around releases the POWs.



Occasionally, men can get wounded, at which point it's time to call in the medic!

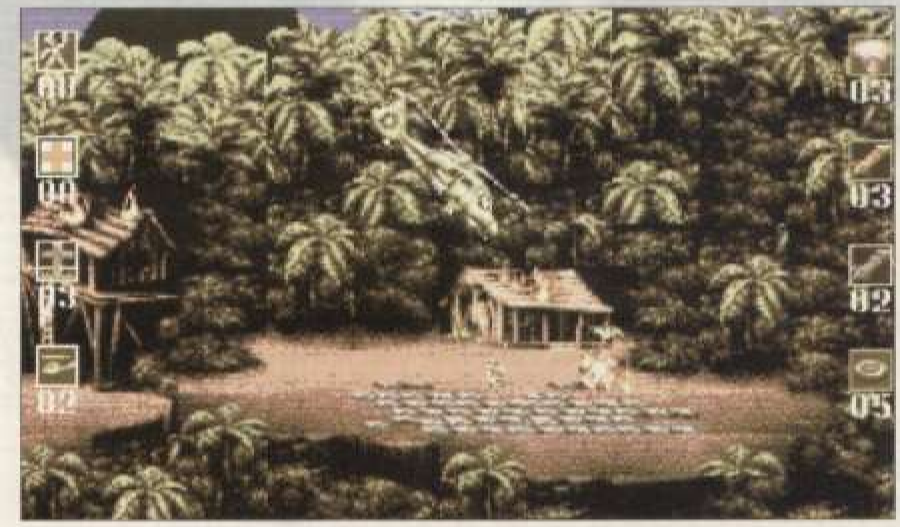
GOOD FOR?

To explain: You begin on the right-hand side of the map, overlooking the glorious jungle. On the far left of the map, which, incidentally, is about eight screens long, is a howitzer, which fires very large and very fast shells in your general direction.

Unfortunately, you can't see it firing until you're right up next to it, which means that at any point a shell can come screaming in from off the screen and knock you out of the sky, or even more infuriating, destroy while you are actually sitting on your landing pad. Sure, you can destroy the Howitzer, but you've got to get to it first. In three games I wasted a total of five lives (and you only get three to start with!) just flying from the right to the left with the aim of knocking the gun out, usually only to be destroyed the moment I start climbing up into the air.

The controls on *Apocalypse* are easy enough – push in a direction to move that way, and press fire to fire your cannons. It's a shame they couldn't a bit more responsive, or the chopper could react a little faster, because that half a second pause between pushing up to take off and actually taking off means that nine times out of ten the enemy helicopter you're trying to avoid will have reached you.

It looks good, though, I'll give it that. With just 32 colours, VIE have managed to come out with a superb-looking game. The helicopter is smoothly and convincingly animated, and everything is clean and recognisable. The scrolling's a bit gammy, but you can't have everything can you?



Enemy soldiers no problem, just strafe them with your cannon.

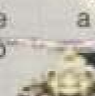
This howitzer causes the kind of problems you can really do without.

ABSOLUTELY

This might sound like a really tough game, but I've only described the first level. Level two has armed guards in towers who can shoot you out of the sky before they've come anywhere near being on screen, tanks that only need to shoot you twice before you come crashing out of the sky and helicopters that come up behind you and blow you apart with machine guns.

NOTHING

I like a challenge but this is nothing but unplayable and frustrating. Anyone who has ever played football with deflated ball will appreciate how I feel about *Apocalypse*. It's slow, hard and you can barely get the thing into the air. I was hoping for a lot but despite its undoubted good looks it's a bit of an empty shell. CU



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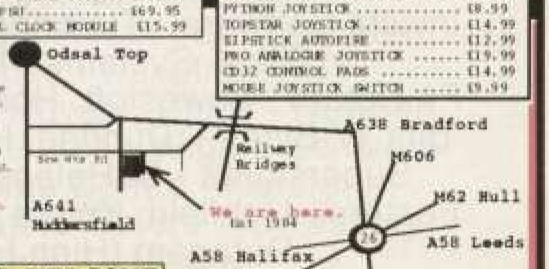

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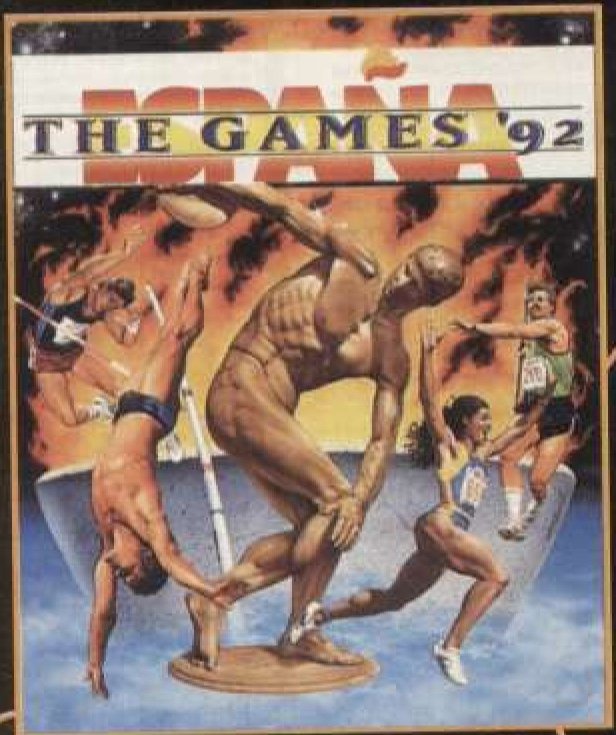

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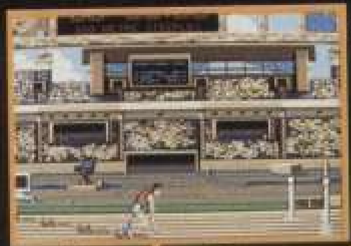

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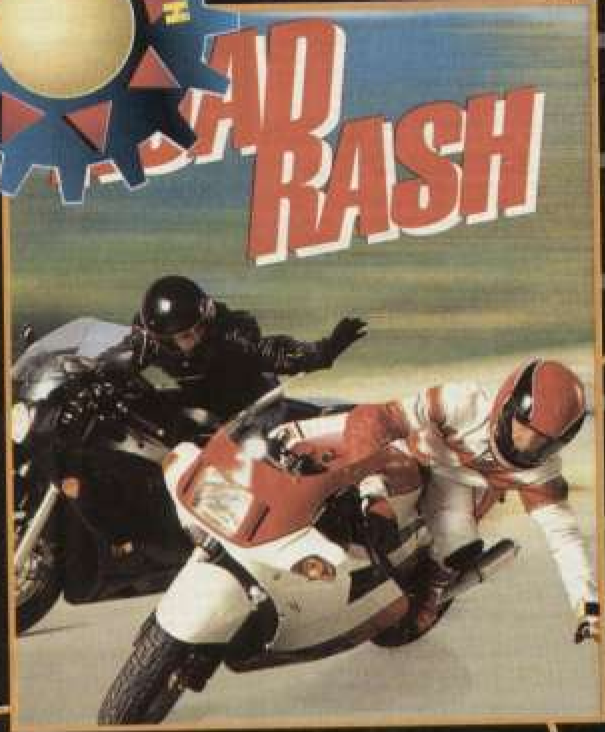

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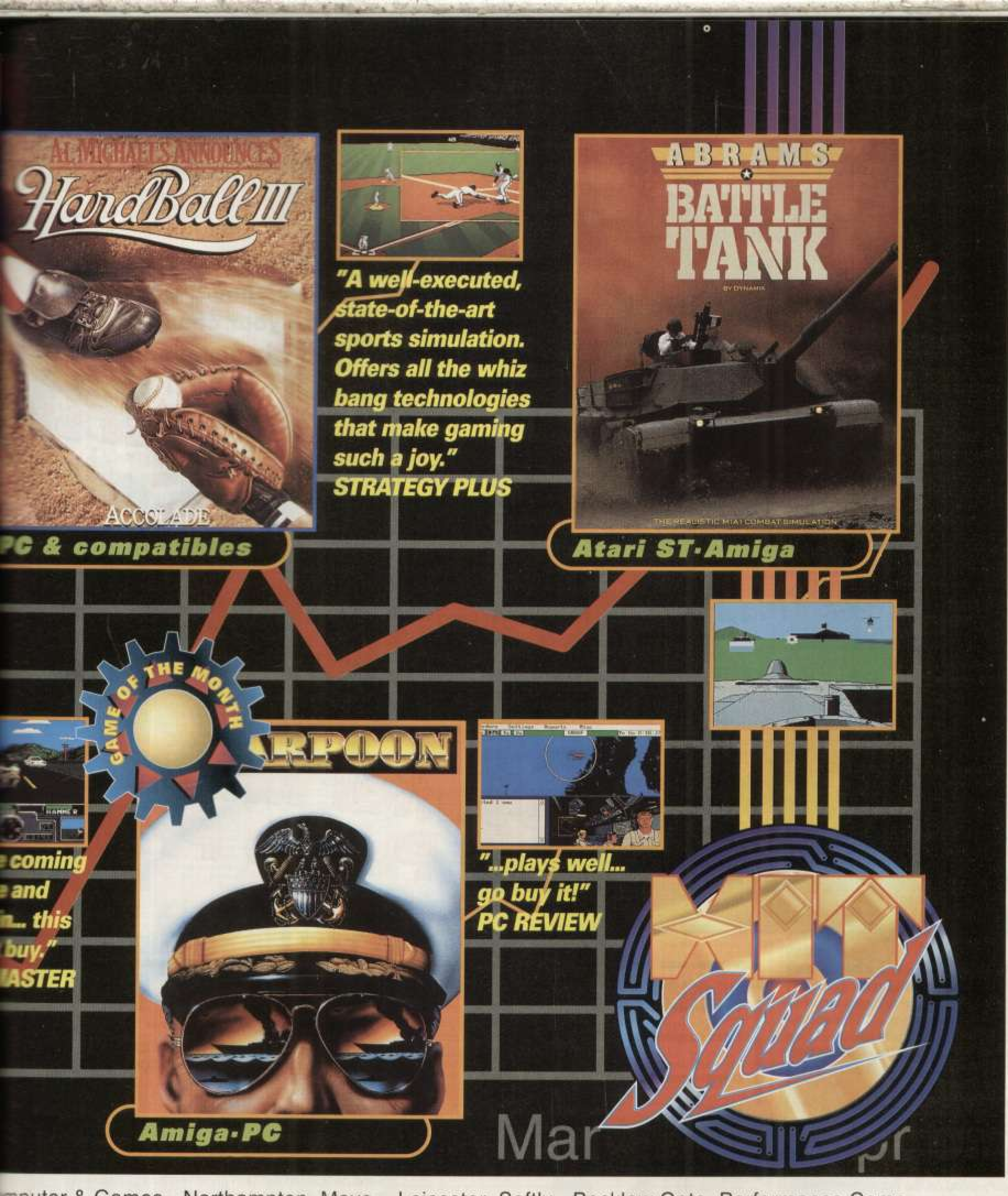
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THE GOLDEN JOYSTICK AWARDS OFFICIAL NOMINATION FORM

1. Best Computer Simulation ....

2. Best Licenced Computer Game ....

3. Best Original Computer Game ....

4. Computer Game Of The Year ....

5. Software House Of The Year ....

6. Best Computer Programmer Of The Year ....

7. Best Advertisement Of The Year ....

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Name ....

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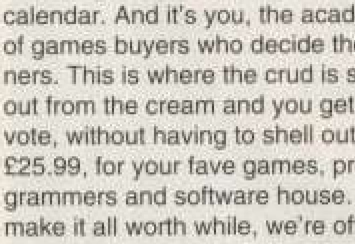
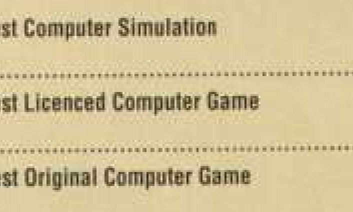
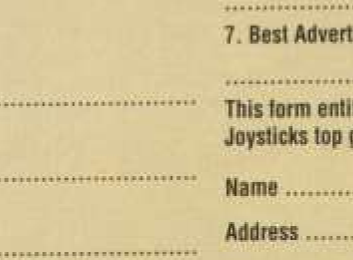


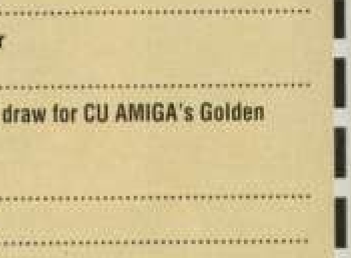
Left: *Beneath a Steel Sky.*



Right: *Frontier: Elite 2.* Both of these brilliant games must surely be in the running for the top prizes.



Left: *Indy and the Fate of Atlantis* - last year's Best Licenced Game.



Right: *Sensible Soccer.* As expected, last year's Game of the Year.

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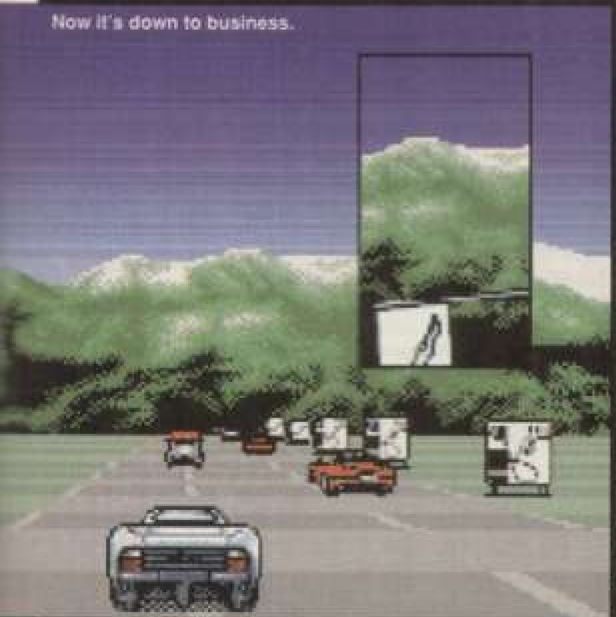
BUDGET

No dosh this month? Don't despair. These games aren't free, but they sure are a bargain. Steve Keen looks at the latest, cheapest floppies around.

A nice intros 'r' us production.

JAGUAR XJ220

CORKERS OUT NOW £9.99



Now it's down to business.

Hot on the heels of the *Lotus Trilogy* comes the game that really put the cat amongst the pigeons and ruined Gremlin's spotless racing record. Although the Grems had planned to release *Lotus 3*, with all the trimmings, Core came from out of nowhere with this definitive racing game and pipped them at the post!

The sports car action features the then £350,000 Jaguar XJ220. Only a few 100 cars were made and because of the amazing price Jaguar are still trying to sell them. Conversely, the game shifted by the truck load and it's easy to see why. Today, even with its cardboard cut out-like car sprites and slow (in comparison with F1) scrolling, the software still plays like a dream. Core were also the first to introduce the track editor, a nifty gadget that allows you to create your own circuits, complete with hordings, flyovers and other roadside obstacles and details.

There are literally scores of options to tinker with and various weather conditions like fog, rain and sleet which hamper your attempts to dominate the racing circuit. Some of the roadside effects are just as stunning today as they were when we first saw them. Rock formations jut out from the sides of the track to form impressive overhanging arches and the little touches of detail, like water spray and grit thrown up by your wheels when you race, also add to this top class product.

The immaculate presentation puts the seal on one of the best racers ever, but the decision between buying *Jaguar XJ220* and *Lotus 3* is not easy. For my money I'd go with Jaguar, it's cheaper than the Trilogy and it's smart software to boot.

88%

Is that a dream car or what?

PREMIER

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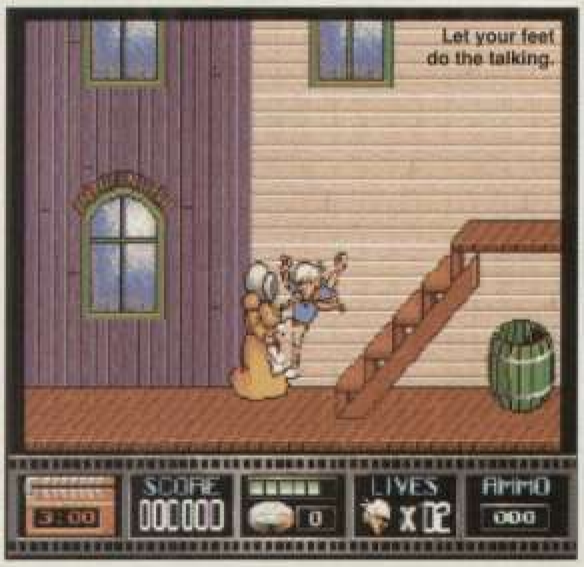


Let your feet do the talking.

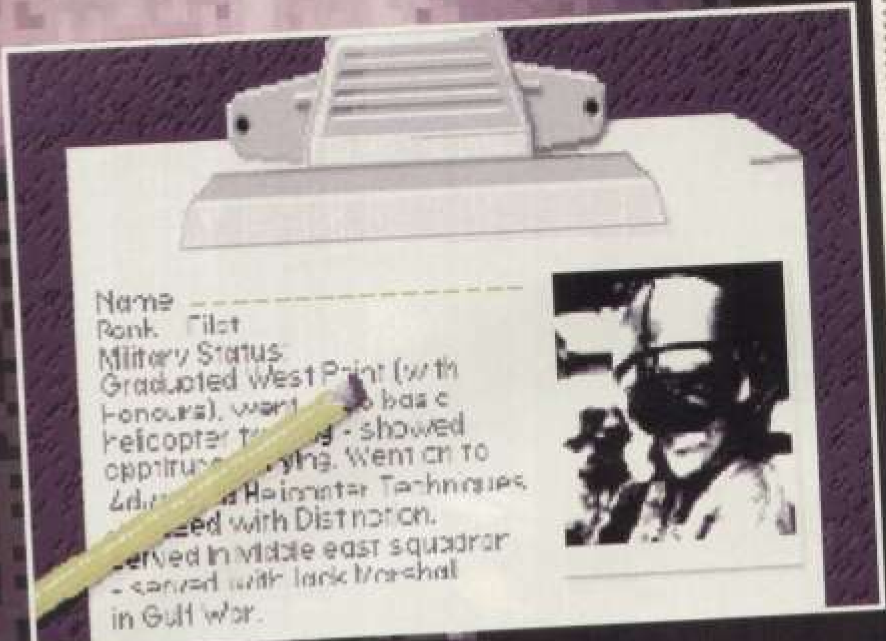
This game's hardly been out a year and it's already ended up on Core's budget label. In it the quiff-sporting hero has landed the jammy job of editing a new blockbuster movie. Whilst hard at work in the editing suite the overworked youngster falls asleep, and when he wakes up finds that some bounder's stolen the five cans of film he's just spend ages splicing together. The only thing to do is to get on the trail of the blighter and track the material down.

The scene is set by a lengthy animated intro and when we tell you that the whole game's been put together by the same talented artists that bought you *Heimdal*, you'll know that your eyeballs are in for a roller coaster ride. You take control of the peroxide hero and guide him through five different sound stages in the studio. Each has its own theme. You'll meet all kinds of colourful characters on the wild west stage, the B-movie set and in the war film studio. Whilst the other movies are still shooting you've got to re-capture the lost cans of film and return them for the premier, that night. The task's not easy either thanks to charging buffalo, sleeping Mexicans, buxom milk maids and stroppy star fish. You can pick up lots of gizmos to help you, like dynamite and various burgers and cakes that replenish energy.

Gameplay is slightly lacking, but the real star is the animation, with hundreds of frames to please the most hardened cartoon junkie. Surprisingly addictive and now that the Amiga seems to only attract the RPG and sim fanatics, this is a most welcome budget release.

84%

The terrible reality of the night's events seep in!



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Sign on the dotted line.

THUNDERHAWK

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Thunderhawk on the Amiga is really up against it these days. Anyone who has seen the Mega-CD version won't want to accept any substitutes but there are plenty who haven't. Back in the real world of the floppy disk *Thunderhawk* can actually still hold its own against the console version and deliver the goods, even if they are a bit battered in 1994.

Core, they of the impressive intro sequence, tried to pull out the stops with an animated cartoon intro that actually featured speech all the way through. Unfortunately, the finished demo chugs along at a snails pace with the dialog between the on-screen stars making them look like two transatlantic mumblers holding a 20 second delay telephone conversation!

This polygon-based helicopter sim is still a fine blast though, with six campaigns to undertake, from aastern Europe to South East Asia and a myriad of missions to complete, 60 in all. Weapons are not in short supply as your attack 'copter is loaded to the hind quarters with ASAMS, guided missiles, machine guns and all manner of rockets and laser guided homing paraphernalia. Trouble is, most of the tanks, ground based rocket launchers, battle ships and enemy helicopters are armed to the back fillings with the same weapons too! Therefore it's advisable to go into the training simulator at the beginning, where you can get the hang of things safe in the knowledge that you can't be shot down.

Still pretty good fun today and makes a nice change from all those flight sims, top sound effects too.

87%

Would you trust this suit?

EYE OF THE BEHOLDER

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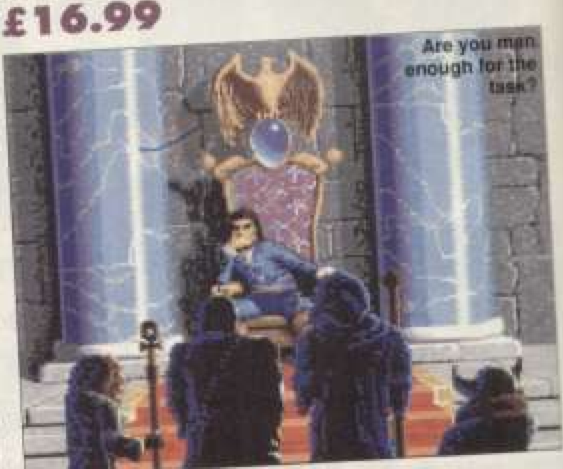


Are you man enough for the task?

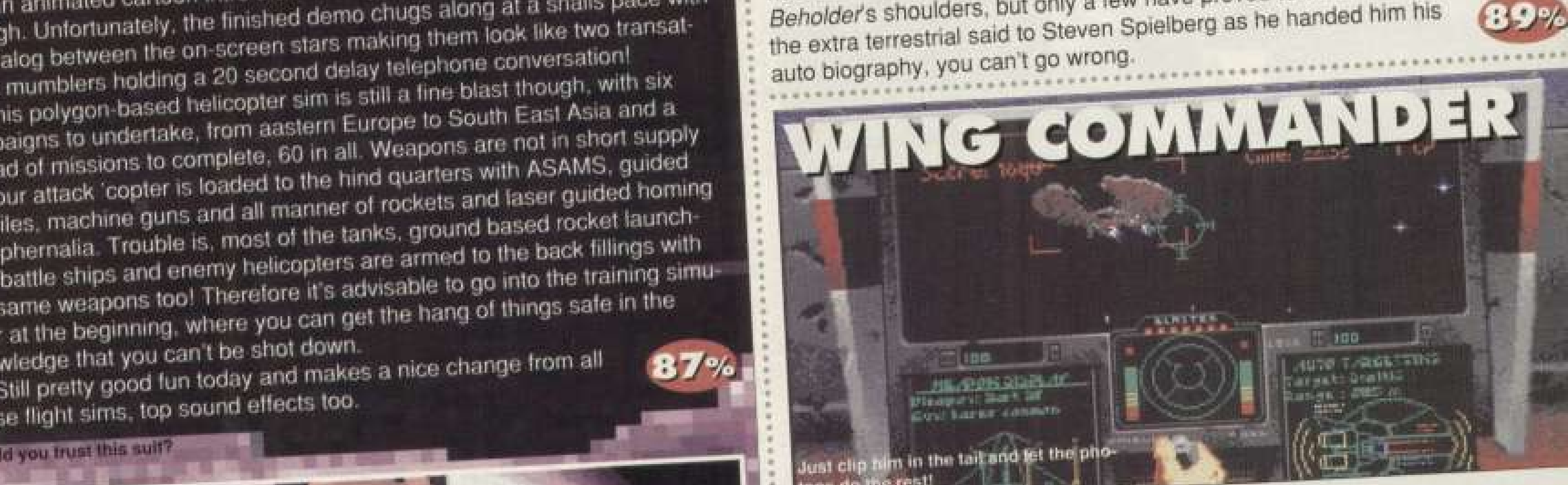
In the beginning there was *Dungeon Master*, the undisputed king of the computer RPG universe. However simplistic the graphics and primitive the sounds were, for years nothing could touch it for cunning, atmosphere and sheer adventuring fun. Many companies attempted to copy the monster-selling game, but none managed to top it until US Gold released *Eye Of The Beholder*.

Eye Of The Beholder was *Dungeon Master* for the nineties. Superior in just about every way, the game contained better graphics, more realistic sounds, a better game interface, dozens of different animated monsters and traps and puzzles so cunning you could cut through glue with them. You can control up to six different adventurers from a choice of different races, abilities and occupations. Magicians, dwarves, warriors and halflings are just a few of the heroes on offer. What makes *Eye Of The Beholder* such a milestone in RPG history is its amazing depth with scores of different spells to use, from fireballs to lightning and hordes of magic scrolls and weapons you can find. The secret to the game is having a well-balanced party and even once you've completed it you can play it again and again in loads of different ways. Menus are very easy to access and the game rates amongst the very highest in the user friendly stakes.

Brilliant graphics, fantastic sound effects and gameplay that'll keep you hooked for weeks. Since its release many games have come up to *Eye Of The Beholder*'s shoulders, but only a few have proved to be better. So, as the extra terrestrial said to Steven Spielberg as he handed him his auto biography, you can't go wrong.

89%

WING COMMANDER



Just clip him in the tail and let the photons do the rest!

HIT SQUAD OUT NOW £14.99

To say *Wing Commander* caused a stir when it was first released on th PC would be the biggest understatement since someone suggested th President Marcos might have been slightly overpaid! The PC version was a real cinematic treat. Animated sequences filled the gaps between the space combat simulation action and served to unfold the story as you went along. Due to the extremely detailed and complex bit-mapped graphics use an accurate Amiga version would be impossible, they cried. However, after lengthy research, repeated attempts at converting and squeezing the code the A500, *Wing Commander* finally appeared.

As a top star-fighter pilot your mission is to fight off enemy advances of Kilrathi, a cat like people, who are invading earth. Take control of one of fo different super fighters and dogfight to the death in outer space. What reall got pulses racing in *Wing Commander* were the amazing graphics used to der the ships. Fighters are incredibly detailed and even have insignia mark on their wings when you get up close. Also, the music and sound effects a ally react to the action as it changes on screen. For instance; you can be cruising along with a nice mellow track reverberating in your ear drums on minute when, suddenly, a full orchestra explodes through the speakers as stumble on a Kilrathi attack force!

Today *Wing Commander* is terribly dated — even when first released game moved incredibly slowly, with tiresome disk accessing and super sl sprites. Once you've got past the flashy graphics there's little left but frust gameplay. But the famous dripping bucket in the locker room and how we raved about it will long be remembered. You'd be much better advised to pick up a copy of *Epic*.

7

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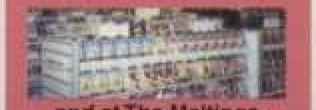

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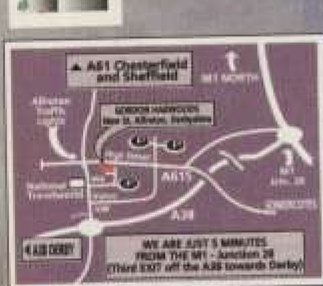
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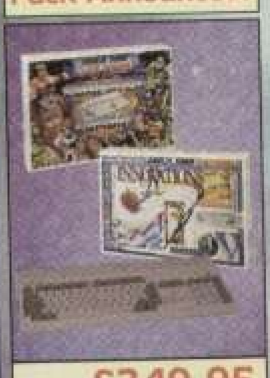

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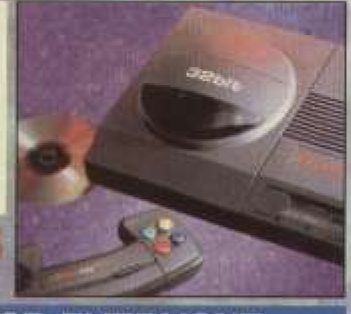

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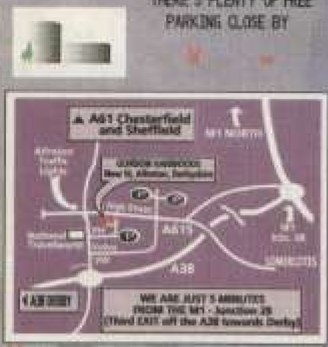
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AMIGA 2.5" INTERNAL HARD DRIVES

SEE PAGE 1

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SEE PAGE 1

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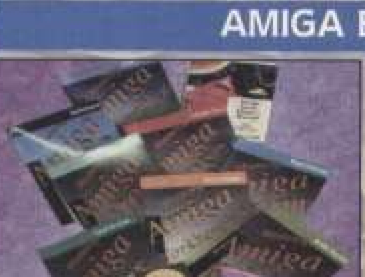

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LOTS MORE BOOKS TOO - PHONE!!!

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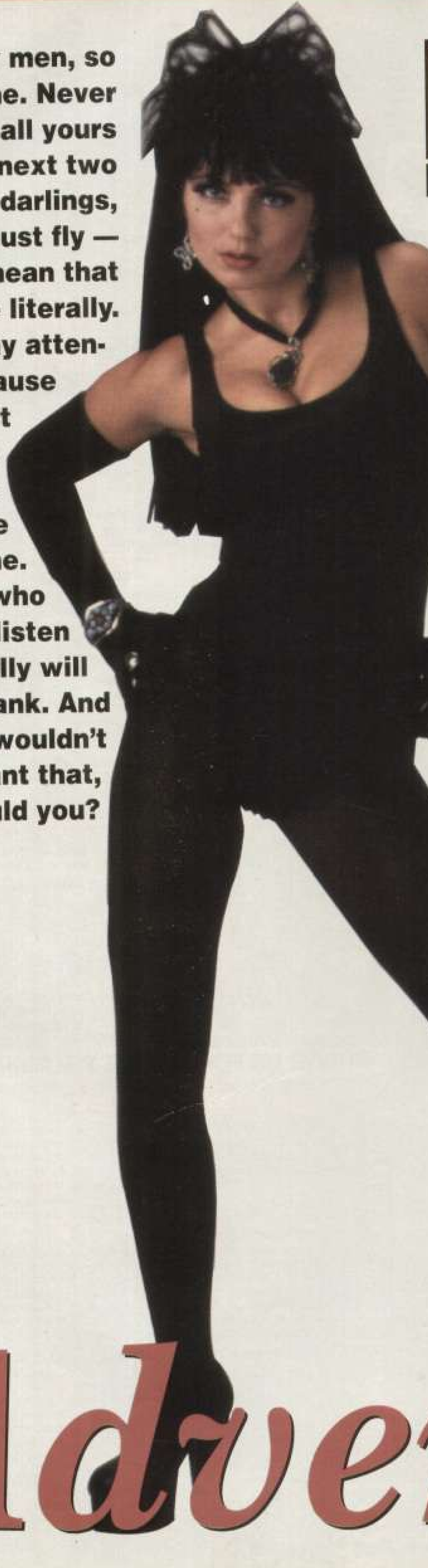
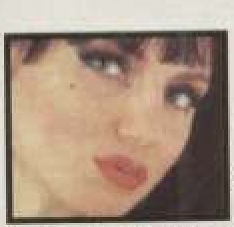
Adventure

So many men, so little time. Never mind I'm all yours for the next two pages darlings, then I must fly — and I mean that quite literally. Now pay attention, because I don't want to waste any more time. Anyone who doesn't listen carefully will get a spank. And you wouldn't want that, would you?





> *" She has hair as black as the raven's wing,*
> *And charms to make men sigh,*
> *Her blood-red lips will steal your soul,*
> *And lay you down to die. "*

POLICE QUEST

I have looked everywhere, but I can't find the night-stick that I need to make the bikers move their bikes away from the car park at Carol's Caffeine Castle. I have all of the other equipment, and I have read everything in the game box, but I still can't find the stick. All I keep getting on the screen is, 'Look in the Police LPD Indoctrination Guide'. Should there be one of these guides included with the game?

Kevin Darby, Staffordshire.

You're not going to be much use to anyone if you don't know where your night-stick is are you? It's in your patrol car you silly fellow. Now go and find it, then take it out and waggle it at those naughty bikers.

LEGEND OF KYRANDIA

I don't know if you get many letters from people of my age (I'm 44 but don't tell anyone) but here goes: I'm stuck in the *Legend of Kyrandia*.

I've got all of the potions, a chalice, a small silver statue, and the third gem in the amulet. But what happens next?

Mrs D. Clarke, Bampton.

No, it's not unusual to get a letter from someone your age, but it is a novelty to get a letter from a lady. I'm a lady myself you know, but just because I have a few unusual hobbies, (like taking men home for dinner and then eating them) I don't get the respect I deserve. I see from your letter that you are married; and it reminded me of something that I read recently. Did you know that 90% of married women are worried about their bums? If that's the case, I don't know why they bothered to marry them in the first place (heh, heh!).

You say that you have all of the potions, but how do you know that? Have you found the Crystals of Alchemy in the woods, behind, and to the south of, Zanthia's laboratory? These crystals will help you to mix even more potions. Once you have mixed two colours to make an orange potion, walk to the edge of the tropical lagoon and swallow the mixture. PS A quick word to Stephen Murphy who can't get past nasty old Malcolm at the cave entrance in the Legend of Kyrandia – when Malcolm appears and throws a knife at you, grab the knife and throw it back.

ELVIRA II

In *Elvira II*, I can't get past Studio 2 – (the big house with the ghost holding the door shut in the room before the study). I also can't get hold of the key in the fish tank.

I've decided to write to you because you look like a woman who can cure problems; and I don't just mean computer-related ones!

Colin McCana, London.

If I could get my hands on you for five minutes you'd never suffer from acne again (you'd never suffer from anything again). As for Elvira, well what can I say about her? The poor dear has put on so much weight lately she's become my two best friends! In fact, she's got more chins than a Chinese telephone directory. Still, you mustn't speak ill of the dead.

Before you enter Studio 2 you must go to the make-up room and turn yourself into a lab-assistant. You'll need a lab

Helpline

coat, the wig from the lower shelf of the costume room, moustache, half glasses, eyebrows and false teeth from the make-up case.

Having made yourself look like a real geek, you can search for Doctor Frankenstein's Laboratory in Studio 2. Offer to help the mad doctor and he'll make you a batch of poison, (providing you have the formula which you should have picked up in the library). Use the poison on the shank of meat and then feed it to the hungry piranha fish.

KNIGHTMARE

I'm in the dungeon searching for the crown. I got the key from the three wizards. I opened the wall using the key, and I'm now stuck in the next room. I've killed two robots and collected the twig.

The room has some plates on the floor plus some empty lockers. What do I do next?

Nick Vatsidis, Greece.

I suggest you get out of there before you get blamed for throwing all those plates on the floor.This room is confusing because it has lots of things in it which do nothing. The answer to your problem is very simple – place the twig onto the centre plate and a new passage will open up.

I bet you're looking forward to going down that passage aren't you? Well you won't be so pleased when you meet all the dragons which are waiting there for you.

Use the empty bottle to store health potions. While you are holding the bottle in your hand, cast the spell and it will fill it up so you can use it later.

You can also bounce a health spell off a shiny door to cure yourself. I was unable to try out that trick as unfortunately I can't see myself in a mirror because I don't have a reflection.

See, there are some disadvantages to being a vampire.

WAXWORKS

I've come to a complete standstill on the Jack the Ripper level of *Waxworks*. I've managed to get as far as giving Willy the Dip, the pocket watch from the Pawnbrokers. He obligingly steals the pimp's address book and key for me, but I am now stuck as the address book doesn't contain any names that I know.

Jamie Davies, South Wales.

There are threee warehouses that you must try and get into. One of them is unlocked and the second one needs the key from the lawyer's office to open the padlock. You get the key for the third warehouse from the bartender at the Ship Inn, but first you need to get a letter from Molly's house. The key which Willy gave you is the key to Molly's house.

MONKEY ISLAND

I can't get the banana picker out of the Cannibal's hut. I can find and open the loose floorboard in the hut, but the banana picker will not go through.

Stuart Cusack, Dublin.

The banana picker will not go through the hole, so don't bother trying to take it just yet. Leave it and return to the beach where your boat is. Paddle the boat back to the beach where you found it, then walk into the jungle where the monkey is. Give all of the bananas that you have to the monkey and he will follow you. Go to screen where the totem poles are and walk to the fence. Pull the nose of the totem pole at the back of the screen. Walk towards the monkey head, and the monkey who has been following you will swing on the totem pole which keeps the door open. When you see the close-up of the monkey head you will be able to pick up the smallest idol. This idol would make a really neat present for someone. Perhaps you should take it to the cannibals and see if they would like it.

Monkey Island – oooh we have no bananas, we have no bananas today.

Like a bridge over troubled water... _Monkey Island 2_ will throw you into the dark.

GOBLINS II

I've been stuck in *Goblins II* for months, and now I'm out of ideas. How do you complete the second dream screen, the one where you have to get Prince Buffoon out of the bubble? Please print this letter because other magazines never print my letters.

Danny Avery, Clwyd.

Send Winkle up the ladder, then use Fingus on the skittles. When the bowl hits the skittles, move Winkle to the star. This will make Winkle get the bowl. Use the bowl on the cover. Use Fingus to activate the bottom flagstone and that will send Winkle flying, knocking the pin onto the umbrella. Get another bowl by using the same trick, and use it on the cover. Put Winkle on the catapult, then get Fingus to send Winkle flying up to the rainbow by activating the bottom flagstone. Use Winkle on the feeler to make a bubble, then quickly get Winkle to jump onto it.

As he floats down towards the cover, get Fingus to activate the flagstone so that the cover opens up just as the bubble lands on it. The bubble will now be blown towards the umbrella and Winkle can grab the pin.

Use the catapult again to get Winkle back over to the left of the screen. You must now get Fingus onto the rainbow's end, and put Winkle on the top flagstone. Fingus will now get sent up to where Winkle is. Move Fingus just to the right of the feeler then activate the switch to make the Buffoon fall. While he's in the right position, make Fingus operate the feeler to get Prince Buffoon enclosed in a bubble. Now Winkle can dart forward and use the pin to release him.

MONKEY ISLAND II

I'm in trouble in Le Chuck's castle at the end of *Monkey Island II*. Having been hung over a pot of bubbling lava with Wally, I talk to Wally who says he has a good idea, then everything goes dark. I have now ended up in a dark room and I can't do anything.

Robert Hewitt, Sheffield.

Ending up in a dark room with a wally who doesn't know what to do next is the story of my life darling. The world is full of wallies with good ideas, and if you listen to them it's not unusual to end up in trouble, so do be careful who you take into dark rooms. If the room is dark why not strike a match to see where you are?

That's it for another month. Before I go, let me leave you with one interesting thought. While I was arranging some fresh flowers around my tomb last night it suddenly occurred to me that, "A chrysanthemum by any other name - would be easier to spell!". Well, it's a thought. Write down your RPG problem and send it in a plain envelope to:-

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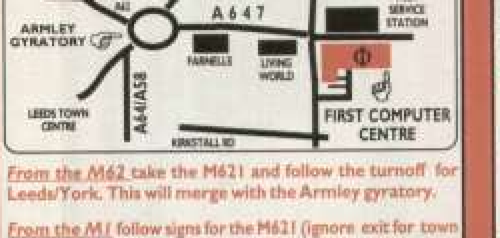

From the M62 take the M621 and follow the turnoff for Leeds/York. This will merge with the Armley gyratory.

From the M1 follow signs for the M621 (ignore exit for town centre). Take A643 Elland Rd turnoff from M621. Follow signs for A58. This merges with Armley gyratory.

From the A1 take the turnoff for the A64. This merges with the A58 (by-passing Leeds town centre) which meets the Armley gyratory. After "Living World" at traffic lights take a right, left, left again, & 2nd left to get to FCC.

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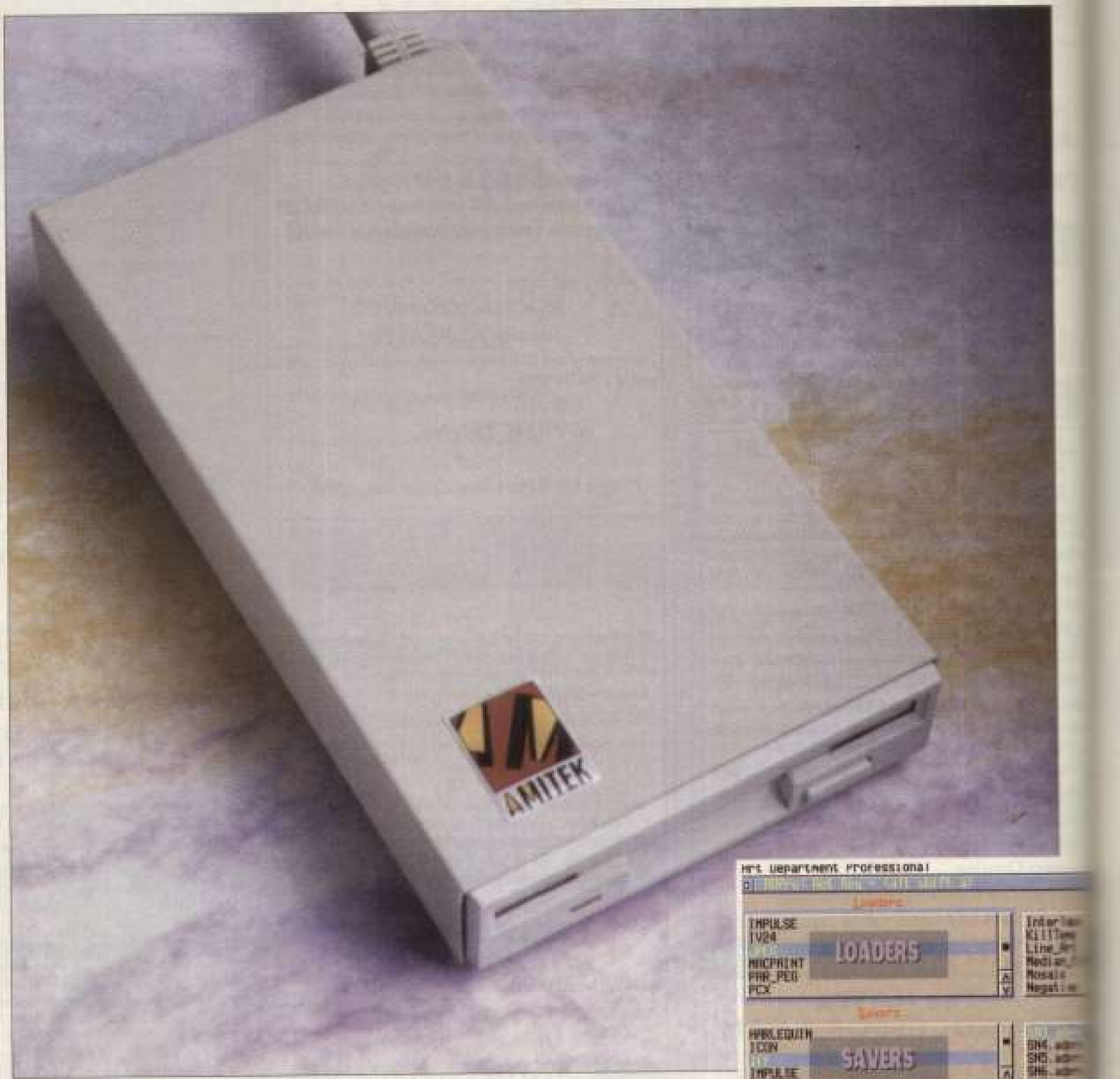
GET SERIOUS

If you want the best power products and useful utilities then have a gander this month's Get Serious. If you don't, might I recommend that you wake up?

98 AMITEK DISK DRIVE
99 SPEAKERS
99 ARTWORKS CLIPART
99 SCSI CD-ROM
100 ADPRO 2.5
106 WORDWORTH 3
108 FINAL WRITER
111 VISTA PRO LITE
112 GVP A1291
117 MULTI-FRAME
120 GOLDEN IMAGE SCANNER
124 SUNRISE 16
126 MUSIC X 2
130 PD SCENE
134 PD UTILITIES
142 ART GALLERY
144 READER OFFERS

The CU AMIGA top rated accolade for non-games products scoring over 90%. They will definitely be worth the money and are likely to act as a benchmark for future releases.


AMITEK
Art Department Professional
LOADERS
SAVERS
IMAGE INFO
EXECUTE

AMITEK DRIVE
Disk Drive

Month after month we see pages upon pages of reviews of the latest and greatest technological wonders that promise to enhance your Amiga immeasurably: 24-bit graphics cards, networking systems, 16-bit sampling cards and so on. Whilst these silicon wonders may make most of us salivate in bucket fulls, it's nice to see that there are companies out there who are still prepared to get 'back to basics' (as John Major would probably rather not say).

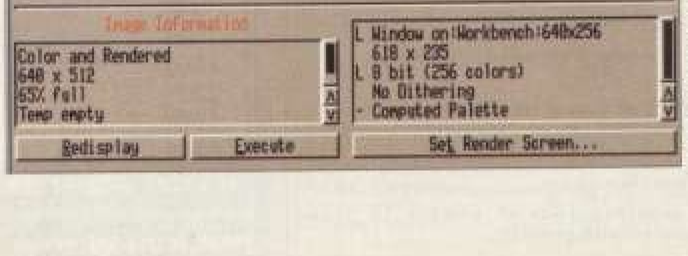
AmiTek have always been a company that specialises in low-cost peripherals for the masses. Their latest product is the imaginatively-named AmiTek disk drive which, as its name seems to strangely suggest, is an Amiga disk drive. Sporting a slimline Sony disk mechanism (one of the best and quietest on the market) and all the standard features you'd expect from a disk drive (drive disabling and a pass-thru connector), the AmiTek drive is as well equipped as it's pretty (isn't the badge lovely!). Sounds standard so far (some would even say boring), but boring is one thing that the AmiTek drive certainly isn't. For starters it comes as standard with 'anti-click' hardware that stops the drive from constantly clicking when no disk is in the drive. Some people are affected by this more than others (it personally doesn't bother me) but at least the inclusion of this extra bit of circuitry should keep those of a nervous disposition quiet.

The AmiTek drive also features an anti-virus circuit that stops all boot block viruses from infecting your disks when the anti-virus hardware is switched on. In practice all this does is to stop any write attempts to track 0 (the boot block) but it's often the simplest ideas that are the best.

Unlike Power Computing's new PC880B drive, the AmiTek drive doesn't sport any form of built-in disk backup hardware (Cyclone etc) but then it is around £10 cheaper than its rival. If you can live without the backup hardware and you're not too worried about being able to upgrade the drive to handle high density disks (Power charge an extra £50 for this privilege) then AmiTek's drive should prove to be a sound investment. In all, AmiTek's drive offers excellent performance at a good price.

Silica Systems, 1-4 The Mews, Hatherley Road, Sidcup, Kent DA14 4DX. Tel: 081 309 1111
Price £59.00 incl P+P.

90%


Art Department Professional
Loaders
IMPULSE
IV24
MACPAINT
PAR_PEG
PCX
Operators
Interlace
KillTemp
Line_Art
Median_Filter
Mosaic
Negative
Savers
HARLEQUIN
ICON
IMPULSE
IV24
User Commands
SN4.adpro
SN5.adpro
SN6.adpro
SN7.adpro
Image Information
Redisplay
Execute
Set Render Screen...

Color and Rendered
640 x 512
65% full
Temp empty

L Window on:Workbench:640x256
618 x 235
L 8 bit (256 colors)
No Dithering
- Computed Palette

MITSUMI LU005S

CD-ROM drive

As this drive is designed for a standard 5 1/4 inch bay, you might think that fitting the drive would be relatively straightforward. Unfortunately, the A4000's drive bay is just a little too short. It is possible to squeeze the drive in, but you may have to make a few internal re-arrangements such as loosening the rear drive bay or soldering the power leads directly to the CD-ROM drive. The position of the Amiga's internal PSU causes all sorts of problems, but you can get around them if you persevere.

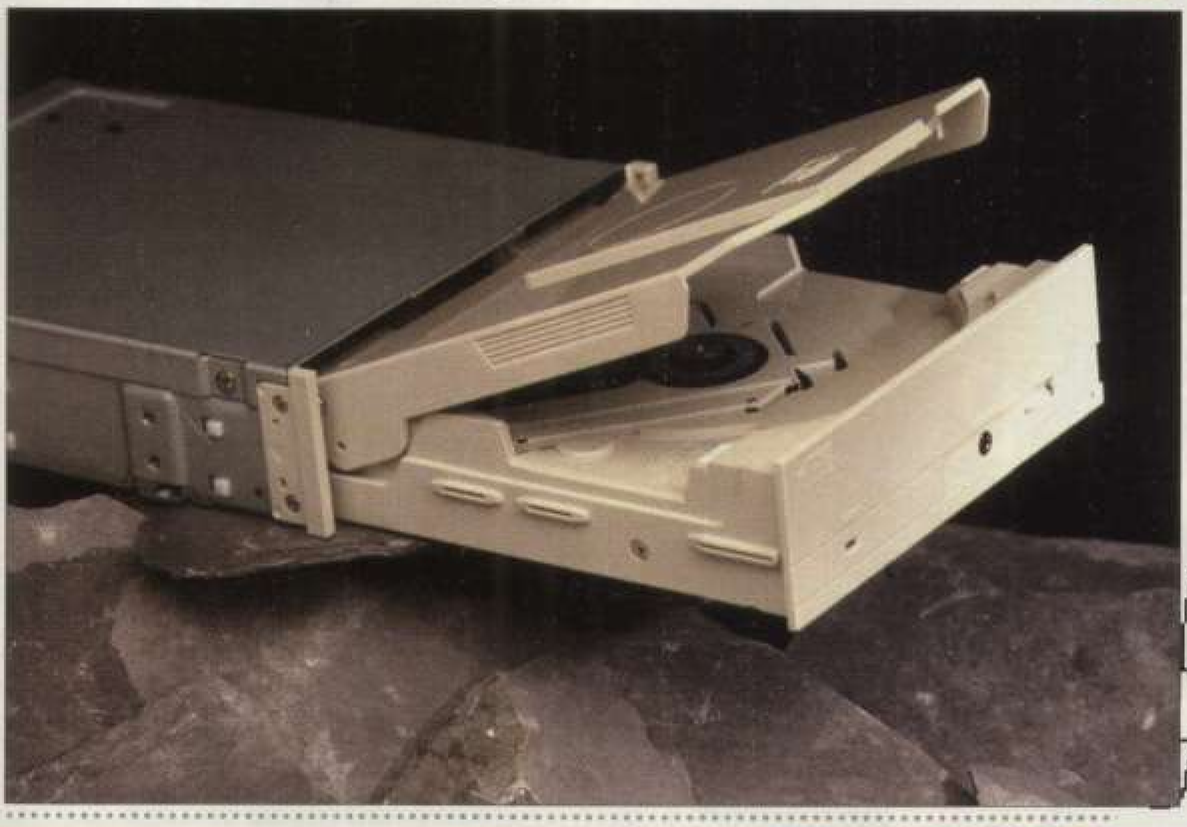
Don't waste your time looking for an eject button on the Mitsumi drive panel – there isn't one. Instead, the entire panel clicks in and out, allowing the drive tray to be pulled out. The lid is then hinged up and the disk popped into place.

Standard audio is available from a stereo jack socket on the front panel complete with volume control, but also at the rear though a miniature edge connector. The A4000 has a connector on the motherboard for just such an audio signal, and when you wire them together the CD audio passes out through the standard Amiga phono plugs. This means that you can use your monitor speakers to listen to your CDs, as well as hearing the normal Amiga error bleeps and sound effects from games.

The Mitsumi drive is a welcome addition and it makes exploring the latest PD CD a positive pleasure.

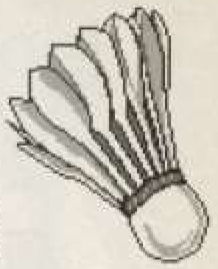
Silica Systems, 1-4 The Mews, Hatherley Road, Sidcup, Kent, DA14 4DX
Tel: 081 309 1111. Price:£116.33 including P+P.

80%



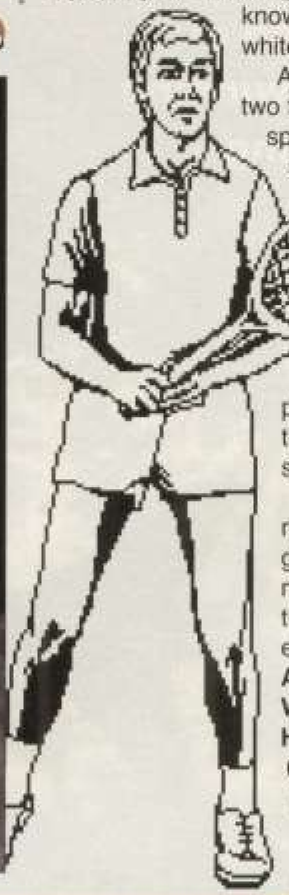
ARTWORKS CLIPART

Art clipart



If you use your Amiga for word proce video captions or DTP you'll need p images (known as clipart) at some t... another. One source of clipart is PD libraries, but you can never be sure what you get is of any use. Another source are companies who make a living out of selling clipart. On the Mac and PC this is big business, with Clipart disks sometimes costing as much as £100.

Luckily on the Amiga they are a lot cheaper. One company specialising in low-cost pictures especially for the Amiga is Artworks. They are well known for high-quality black and white images



Artworks have now released two further disks, containing sporting images and frames and borders. Both disks cost a smidgen under eight pounds each and contain between 115 and 270 IFF, high resolution images.

Looking at the samples produced here, you can see that the images are of reasonable quality.

It's a great pity they are not in colour, but otherwise, given the low price and large number of pictures per disk, these two disks represent excellent value.

Artworks, 1 Pond View, Wootton, Ulceby, South Humberside, DN39 6SF Tel: 0469 588138 Price:£7.99 per disk including P+P (£7.00 if buying three or more).

86%

3
3
ScreenBeat 3
ScreenBeat 3
ON/OFF
VOL
BASS

SCREENBEAT3

speakers

Does your Amiga sound squeaky through monitor speakers? If so, you should have a look at external units. SpectraVideo have just launched a set of new external speakers which will quite happily boost your Amiga's audio.

Named ScreenBeat 3, they offer 2 watts per speaker, and work off four AA batteries (power can be via an AC/DC power adaptor although this isn't supplied). They also offer magnetic shielding and booster circuitry.

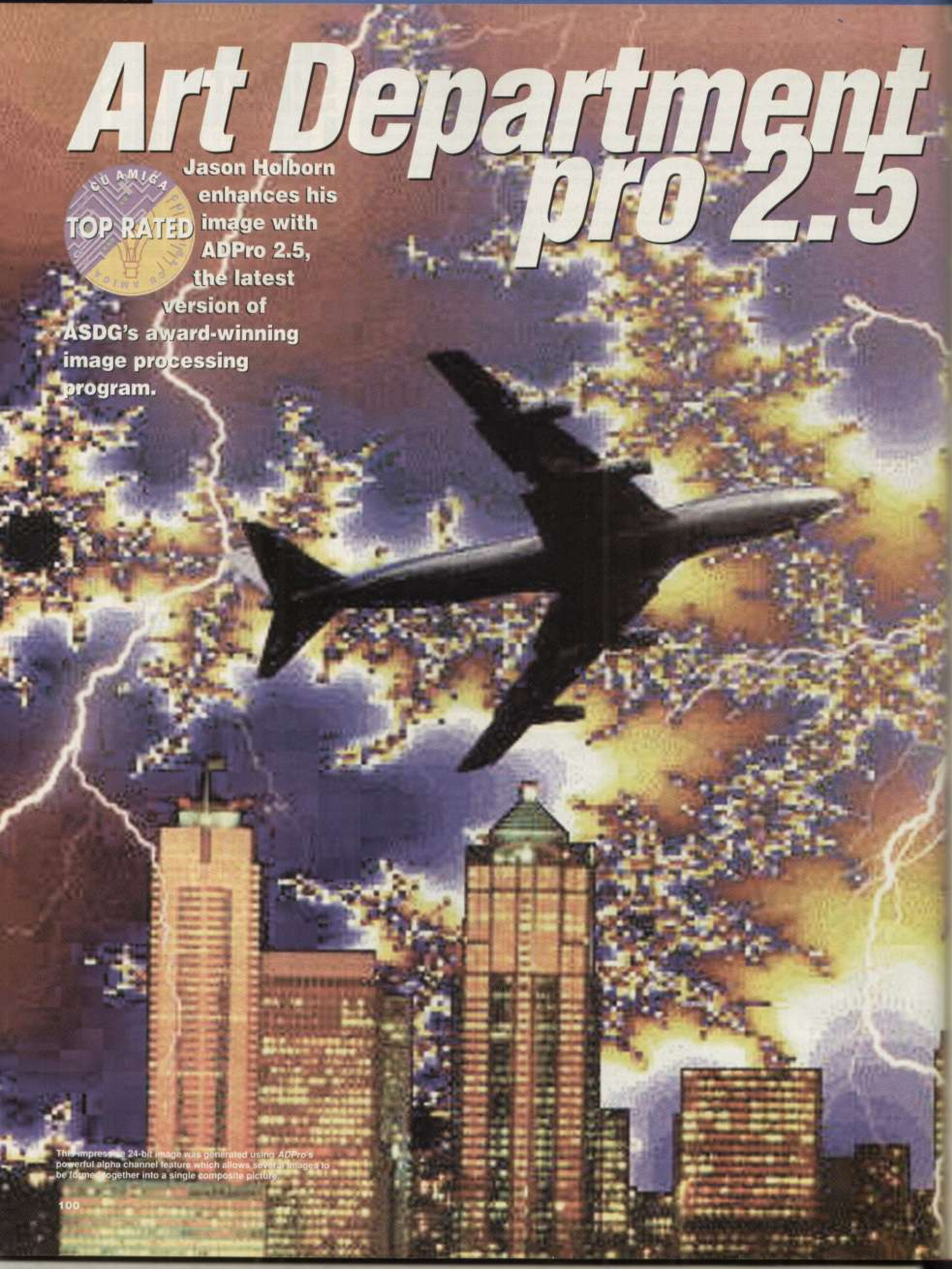
The magnetic shielding cancels out the effect of the magnet used inside the speaker and allows you to use them next to your monitor or TV. Using non-magnetically shielded speakers near your monitor will, after a little while, harm your monitor, and leave you with, at best, a discoloured screen. Magnetic shielding is especially important with these speakers as they also come with mounting brackets, allowing you to mount them on the side of your monitor. Unfortunately, however, these brackets are a little feeble and not really ideal for long term use.

The boosting circuitry, as its name implies, is meant to increase the sound level. In tests I carried out however I couldn't tell much difference between these and another pair of 2 watt speakers that I use.

The *Screenbeat 3* speakers aren't outstanding, but do offer a low cost way of boosting the sound output of your Amiga, or Walkman for that matter, and provide reasonably faithful reproduction of the sound.

SpectraVideo, Unit 27, Northfield Industrial Estate, Beresford Avenue, Wembley, Middlesex, HA0 1NU £16.99 including P+P.

85%



Art Department pro 2.5

CU AMIGA TOP RATED

Jason Holborn enhances his image with ADPro 2.5, the latest version of ASDG's award-winning image processing program.

This impressive 24-bit image was generated using *ADPro's* powerful alpha channel feature which allows several images to be joined together into a single composite picture.

ASDG's *Art Department Professional* (or just ADPro to it's friends) is undoubtedly the Amiga's premier application. *Brilliance* and *Deluxe Paint 4 AGA* may still pull in the punter's lolly, but *ADPro* has probably found its way onto the hard disks of more graphics enthusiasts and professionals than any other Amiga program. Whether you get your kicks from playing around with ray tracing, constructing multimedia presentations, DTP or just enjoy art for art's sake, *ADPro* is an indispensable tool. Unlike a conventional paint program like *Brilliance*, *ADPro* doesn't allow you to modify an image, you can't, for example, select a colour and draw onto the image in the same way that we take for granted in *Brilliance*. So why is *ADPro* so popular and what's so special about it?

ADPRO LAID BARE

ADPro is not a conventional paint program. A paint program can best be described as a 'pixel editor',whereas *ADPro* is an 'image processing' program. Image processing programs like *ADPro* have two very handy functions – for converting images stored in one format to another entirely different format and for globally manipulating image data.

AdPro's role as a file conversion tool is very useful. Say, for example, you had a friend who owned a PC and he offered to provide you with some lovely 256 colour VGA pictures stored in '.PCX' format. Try as you might, there's no way you'll get them to load into *DPaint* because PCX files are stored using an entirely different system from the Amiga's IFF file format. With a program such as *ADPro*, however, you can load in your friend's PCX files and then save them out in IFF format ready to use with *DPaint*. *ADPro* supports many, many more file formats too – version 2.5 of *ADPro* will happily handle PCX, GIF, JPEG, IFF, BMP, MacPaint and many other file formats.

Where *ADPro 2.5* really excels, however, is its vast range of image processing tools. These tools give you extensive control over every aspect of an image – the brightness, contrast, colour content, resolution, aspect ratio and you can even crop the image if you so wish. What's more, you can easily apply special effects to an image which will change its appearance completely. *ADPro*'s 'Antique' operator, for example, will give any image a sepia tone giving the impression of age.

OUT WITH THE OLD...

ADPro certainly isn't a new product by any stretch of the imagination and updates aren't that uncommon either, but *ADPro version 2.5* is a bit special. Not only have ASDG enhanced the product's capabilities (which, let's face it, is what an update is supposed to do), but they've just about rebuilt the whole program from the ground up. The net result is a program that is about as similar to its predecessors as a brand spanking new Metro Turbo Convertable is to Tony Horgan's broken down Mini (complete with psychedelic paint job and humungous-bass speakers).

Whilst no one could ever doubt *ADPro*'s impressive power, ASDG's choice in user interfaces has certainly received more than a little flak over the years. That rather dull low resolution screen that broke just about every style guideline in the book gave *ADPro* a rather unprofessional feel that must surely have lost it more than a few potential PC and Mac converts. Thankfully ASDG have seen the light and version 2.5 of *ADPro* now boasts a completely new user interface that must surely be the answer to every *ADPro* user's dream. Gone is that dull grey screen and in its place is a user interface that complies fully with Commodore's user interface style guidelines.

...IN WITH THE NEW

ADPro 2.5's new front end is nothing short of a revelation. Okay, so ASDG should have complied with Commodore's guidelines years ago, but what the hell – now they've finally got around to it, they've really gone to town! Running under Workbench 2.0 (or greater), The new front end takes full advantage of the full array of standard system gadget types and resources (*ADPro 2.5* even runs as a Commodity). One of the most welcome additions is full support for re-targettable graphics which means that the *ADPro* screen and the rendered image display can be opened on any 24-bit graphics card or public screen that supports the Amiga's new display database.

Where have I seen this face – I think Jason is becoming obsessed. One of many effects possible with *ADPro*.

Changing a program's user interface can have drastic effects on the fluidity of a its operation (*DPaint IV*, for example) but *ADPro 2.5*'s new front end greatly enhances working with the program . One particularly nice feature is the ability to display the image you have loaded into memory within a standard Workbench window on the screen. You need to own an AGA machine to be able to get the very best from this feature (24-bit images don't look so great in 16 colours!). Being able to view your rendered image on the same screen as the *ADPro* controls is a real boon as it's so much easier to configure an image processing tool when you can actually see the image that it will effect.

COMPOSE YOURSELF

Surprisingly, there are very few changes or additions to *ADPro*'s powerful image processing 'Operators', although ASDG have managed to

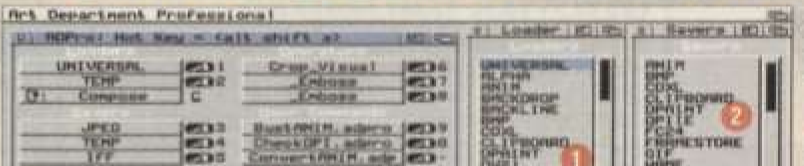
»

TOUR OF THE ART DEPARTMENT

① *LOADERS* - Before you can perform any form of image processing you need to start by loading an image into *ADPro*'s 24-bit image buffer. Unlike most Amiga graphics packages, *ADPro* doesn't automatically assume that every single image file that you wish to feed it is stored in IFF format. *ADPro* uses special 'Loader' files which give the program the ability to handle a vast array of different file formats.

② *SAVERS* - Not surprisingly, 'Savers' perform the same role as 'Loaders' but in the opposite direction - they convert the 24-bit image data held within *ADPro*'s image buffers into an external file in the file format of your choice. Not all 'Saver' modules will produce a file, however – some 'Savers' are actually device drivers that allow *ADPro* to directly 'save' image data to a device such as a 24-bit display card, without having to use the card's own driver software. *ADPro* comes complete with special 'savers' for a wide range of 24-bit cards such as OpalVision, GVP's IV24, the Harlequin, DMI's Resolver and the Retina card.

③ *OPERATORS* - Once you've loaded an image into *ADPro*, you'll want to manipulate it. Put simply, 'Operators' are disk-based modules, each of which performs a particular image processing function. *ADPro* offers a bewildering array of different 'Operators' - there's an operator to scale an image, another to convert a colour image to a grey scale, another to remove isolated pixels and so on. Because these operators are disk-based, adding new operators is very simple indeed as all you have to do is to copy a new module file into the 'Operators2' directory on your hard disk and *ADPro* will automatically recognise it.



ADPro 2.5's new interface is certainly a vast improvement over the dull low resolution screen that *ADPro* users loved to loathe.

USER COMMANDS - Most operators have a very specific use and therefore won't do a great deal on their own. Combine several operators together, however, and you can get some very impressive results indeed. *ADPro* allows you to create these 'super-operators' using *ARexx*, the powerful task communications language bundled free with all Amigas. By writing *ARexx* scripts that directly control *ADPro*, some very powerful effects can be produced. These can then be executed from within *ADPro* by placing them into a special directory called 'Commands2'. When *ADPro* is run, a list of all available *ARexx* scripts is placed into this window.

④ *IMAGE INFO* - The Image Information box displays all sorts of useful information about the currently loaded image file, such as the type of image (rendered image data etc, colour, grey scale etc), the resolution of the image, how full *ADPro*'s image buffers are and the status of the temporary memory buffer.

⑤ *EXECUTE* - When you load an image into memory, it will not automatically be displayed. In order to display your image, you need to click on the 'Execute' gadget which instructs *ADPro* to take the raw 24-bit image data it has stored in memory and convert it into a rendered image which can be displayed on the screen. This rendered image data can be displayed on the main *ADPro* screen or within its custom screen.

⑥ *CONFIGURATION* - The configuration box displays information on the current *ADPro* setup. This includes the current dithering pattern, the palette setup and the depth and size of the screen used to display rendered image data.

⑦ *RENDER SCREEN* - Clicking on the 'Render Screen' gadget allows you to control the screen mode of the screen that the rendered image data is displayed within. *ADPro* fully supports the standard Workbench screen mode selector and so there's no reason whatsoever why the *ADPro* screen and the rendered image data cannot be displayed on any graphics card that supports re-targettable graphics.

Here's just a small selection of the weird and wonderful effects possible with *ADPro*'s powerful image processing tools.

» rewrite most to take advantage of *ADPro 2.5*'s new look and you can now use an *ARexx* script as an operator in its own right. One area that has undergone more than a cosmetic overhaul, however, is the new compose tool which allows you to combine several images together into a single composite image (not to be confused with the type of video signal).

Unlike previous releases, you can now specify a range of colours as transparent when overlaying one image on top of another. This certainly comes in very handy when you want to remove the background from an image.

OVERLAYS

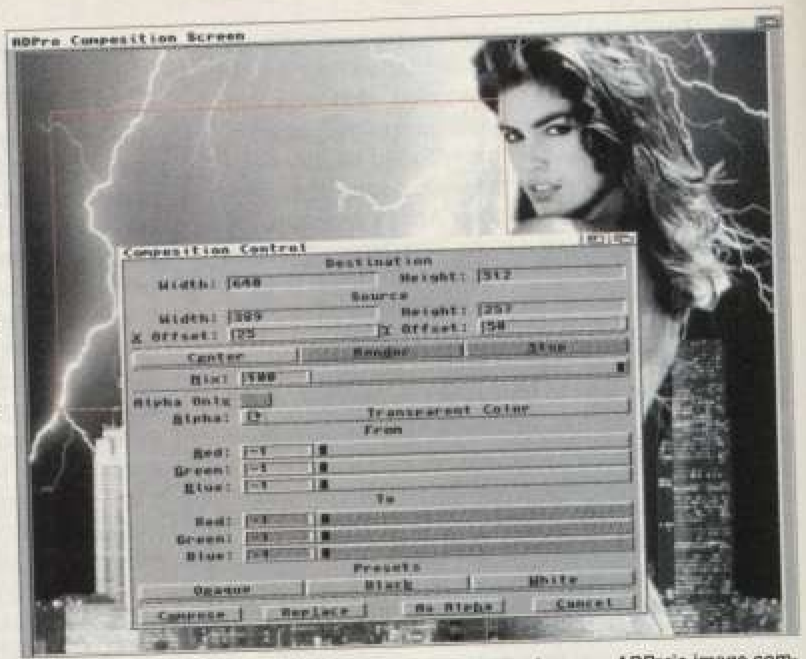
Say, for example, you wanted to overlay the image of an aircraft onto a backdrop image but the background colour behind the aircraft was more than just one colour (a range of blues, for example). All you'd have to do is tell *ADPro 2.5* to remove all blues between two RGB values and Bob's your uncle – one aircraft minus its background.

ADPro 2.5's alpha channel support has been brushed up considerably too (an alpha channel is simply a method of pasting one image on top of another. It's different from normal paste operations in that a third file, a matte file sets the amount of the foreground image visible.)

With version 2.5 of *ADPro* you can now specify an alpha channel in a non-IFF format so the foreground image to be composited doesn't have to be converted first. You no longer have to ensure that your alpha channel images are grey scale either – if it's is fed a colour alpha channel image, it'll automatically convert it on the fly.

CONCLUSION

If Cindy Crawford was to be transformed into a computer program, she'd almost certainly be *ADPro 2.5*. *ADPro* always has been a great program and this latest release certainly does nothing to tarnish that view. Indeed, version 2.5 is such a vast improvement over previous releases that it's like using an entirely new program altogether.



Apart from the obvious cosmetic changes, *ADPro*'s image composition tools have undergone the greatest enhancement.

If you already own *ADPro* (and getting your hands on Cindy Crawford isn't an option) then you simply must upgrade to *ADPro* version *2.5*. After little more than a few minutes with this new release you'll wonder how you ever worked with that dull grey *ADPro* screen of old. Although it may not offer much in the way of new image processing tools, *ADPro 2.5* is so much easier to use and a lot more intuitive. If *ADPro* is still a stranger to you, then there's never been a better time to jump on the image processing bandwagon.

Although it may lack some of the more visually pleasing effects offered by programs like ImageMaster and ImageFX, nothing can match it for raw image processing power. If you want a workhorse and not a wimp, look no further than *ADPro 2.5*.

UTILITIES UNLIMITED

Bundled free of charge with *ADPro 2.5* are a number of new and enhanced utilities that extend the package still further.

CINEMORPH **– Cinemorph? Isn't that a GVP product? If so, what's it doing in the same box as *ADPro2.5*? Well, actually *ADPro*'s Cinemorph and GVP's morphing program of the same name are actually entirely different programs altogether (which would seem rather naughty of ASDG!). *ADPro*'s Cinemorph utility is what ASDG call a 'Drop Frame Processor'. That is, it allows you to convert between different film and video frame rates. Definitely a tool for the videophiles only.**

FRED **– Fred (short for 'Frame Editor') is a tool which allows you to manage lists of files or – as they should be referred – image 'sequences'. Fred can instruct *ADPro 2.5* to process each image within a sequence therefore making it very easy to process multiple images automatically. Fred also provides extensive animation facilities allowing you to build true 24-bit animation files.**

SPLITZ/JOINZ **– This pair of utilities allow you to split very large images into several discrete chunks that can easily be transferred between different machines via a standard floppy disk. ASDG kindly provide versions of these utilities for the Amiga, the PC and the Mac.**

SENTRY **– Monitors a given directory and then performs an *ADPro* ARexx script whenever a new file appears within that directory. Can be particularly useful if you are using a ray tracing program to generate 24-bit frames for an animation and you wish *ADPro 2.5* to automatically perform a given image processing operation on each frame.**

ASDG INC £199.95

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EASE OF USE ◆◆◆◆◆◆◆◆◆◆ **90%**
ADPro's new Workbench 2.0 compliant user interface certainly makes the program much easier to use but ADPro is still a complex tool.

VALUE FOR MONEY ◆◆◆◆◆◆◆◆◆◆ **81%**
Compared to similar programs on the Mac and PC, ADPro 2.5 is an absolute bargain!

DOCUMENTATION ◆◆◆◆◆◆◆◆◆◆ **89%**
ADPro 2.5's manual is clearly written, well organised and easy to follow.

FLEXIBILITY ◆◆◆◆◆◆◆◆◆◆ **83%**
No other Amiga image processing program even comes close.

> *If you want real image processing power, forget the rest and get ADPro 2.5.*

OVERALL 94%

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This compilation, from Nimbus, features databases and books, ORS Statistics, Clip Sound & Art, software with utilities and animation titles.

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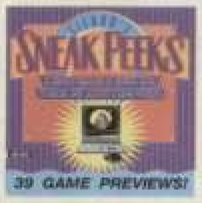

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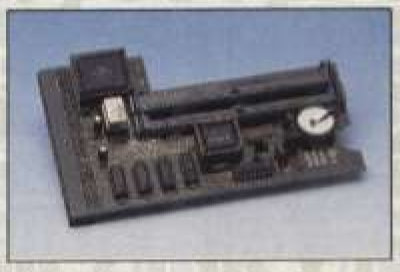

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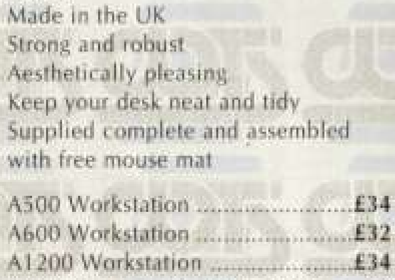

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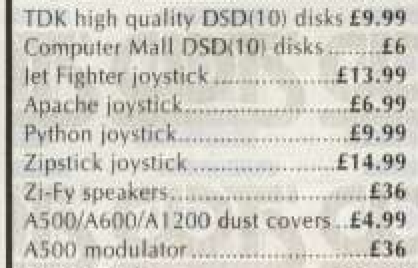

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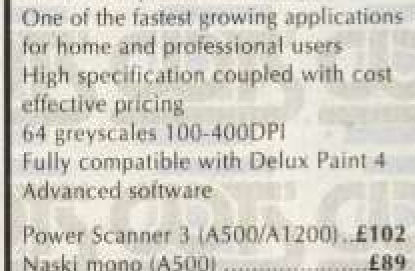

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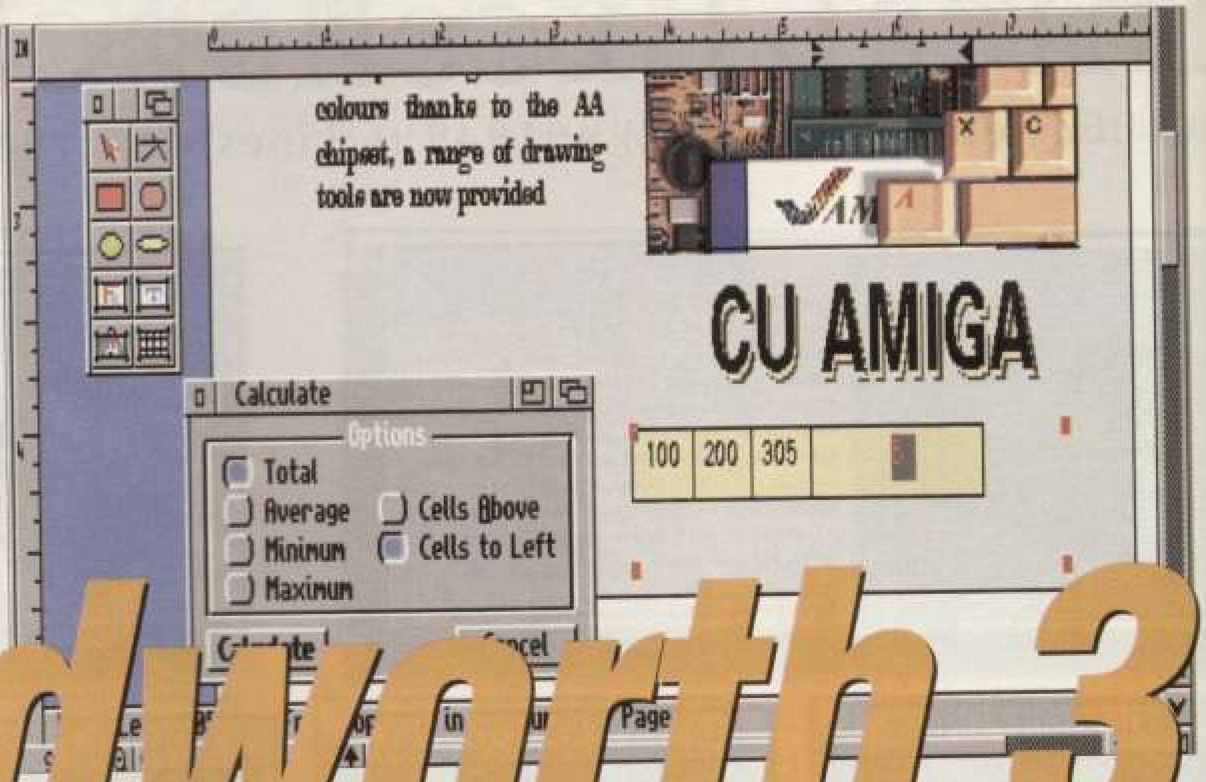

colours thanks to the AA chipset, a range of drawing tools are now provided

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○ Cells Above
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Wordworth 3

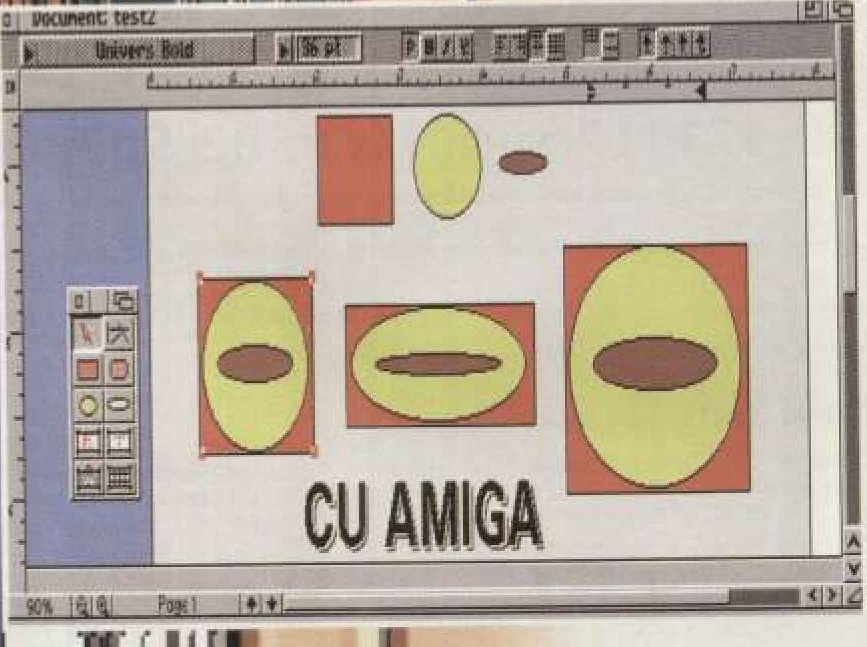
One of the best word processors available for the Amiga has undergone a major upgrade. Andy Leaning takes a look at the new version.

Wordworth is one of the most popular word processors on the Amiga. It can edit and rearrange text, format and style your documents, search and replace text, control formats and offers reasonable typographical control. So what can an upgrade offer over existing features?

Well, apart from new text entry and editing improvements – like customisable tool bars and automatic correction of errors, *Wordworth 3*, has taken a bold step forward. Not only have Digita increased the text manipulation functions, they've also taken *Wordworth* into the realm of DTP. *Wordworth 3* now has a range of drawing tools built-in, *PageStream*-style object control, and special text effects which can rotate, spiral and angle text. *Wordworth 3* also has a host of features that are now common on PC word processors, such as table creation, glossary functions, and a mini spreadsheet.

IT WAS THIS BIG!

Wordworth 3 is a big program, consuming a whopping 5Mb of RAM. However, you can get around this by using its partial and custom install procedures. These options allow you to leave out certain features thus freeing up some space in your memory. You can, for instance, chose not to install the graphic and text import modules, Digita clipart or the tutorial documents etc. The minimum installation still eats up over 3Mb of space, but if you want the kind of power programs of this sort deliver you have to pay the price.



***PageStream*-style object handling in a word processor! *Wordworth* can combine, group, stretch and resize objects just like *PageStream*.**

THE CONTENDERS

Final Writer, (CU AMIGA January '94 – 90%)"The most powerful word processor ever to grace the Amiga'
Protext 6, (CU AMIGA February '94 – 80%), "Good, honest Word Processing, but not for wimps."

Wordworth 3 also complies with Commodore guidelines on requesters (the boxes that pop up whenever the program needs information from you). The requesters now come up in Workbench standard windows and gadgets which can be moved, minimised and sent to the back and front, you can also change the font used within them.

Several requesters (Find and Replace for example) will also allow you to continue editing text while they are still open, you don't have to click on a button closing the requester before editing again. Although there are only a few commands that offer this option, it is a welcome one – how often have you selected Search and Replace, only to find you can't remember what you wanted to search for? With these Modeless requesters, as they are called, you can move the window aside, and refer to your copy to refresh your memory – brilliant!

The tool bar has also been improved. You can now configure the tool bar to hold any features that you use regularly. It has more buttons and can be moved around the screen or put in a window. There over 100 commands available, which if used will quickly fill the screen up with icons, or worse, result in your Tool Bar running off the edge of the screen (particularly in lower resolution screens). But, to resolve this problem you can now make the icons smaller.

One of the most productive features of *Wordworth* is the auto correct facility. This is an automatic error correction system, which spots and replaces your mistakes as they are made. It works by checking the text you have just entered using its library of frequently mistyped words and on finding one swops it with a correct word. You

LATE NEWS!

As I was finishing this review we received news that Digita were working on an upgrade. In addition to correcting many of the silly errors, the new version 3.0a will also apparently be faster, and have several new features.

Hopefully, this new version will correct the silly problems that have prevented us from giving the reviewed the higher score it really deserved.

We hope to receive this version next month and we will be putting *Wordworth* and *Final Writer* up against each other in a head-to-head in our June issue.

Watch this space.

can add your own commonly mistyped words and alternatives to the library. For instance, whenever I enter 'TEH', *Wordworth* changes this to 'THE', and does this so fast, I don't even realise I made a mistake!

Also, you can speed up your typing by using the facility to expand abbreviations. My *Wordworth*, for instance, now changes 'CU' to 'CU AMIGA', Commodore has been abbreviated to 'C', whilst *Wordworth* is entered as 'WW'. If you use a word regularly this process can really make a difference to how fast you can get a job finished.

The *Wordworth* text effects add visual impact to any document. Dragging out a text effects box and clicking on it will bring up a requester. From here you can summon up various special effects, normally only available in a graphics package. Text effects include the ability to create a diverse number of typestyles and effects, including rotating text around an arc or circle, angling it, or adding shadows.

With features like text effects, Wordworth is very similar to a DTP program. In fact, the new version is closer to a desktop publishing program than any word processor yet seen on the Amiga. In many respects, *Wordworth* now operates more like *PageStream* than a word processor. Although basic text entry and editing are still based around a blank sheet of paper on which you write, most other elements (graphics, tables, boxes etc) are positioned as floating objects, and can be moved, resized, edited, removed and grouped at will. Just like *PageStream*, resizing an object or group will change all the dimensions within the object. Taking a box with a circle in it and stretching it sideways, for instance, will change the box to a rectangle and the circle to an oval.

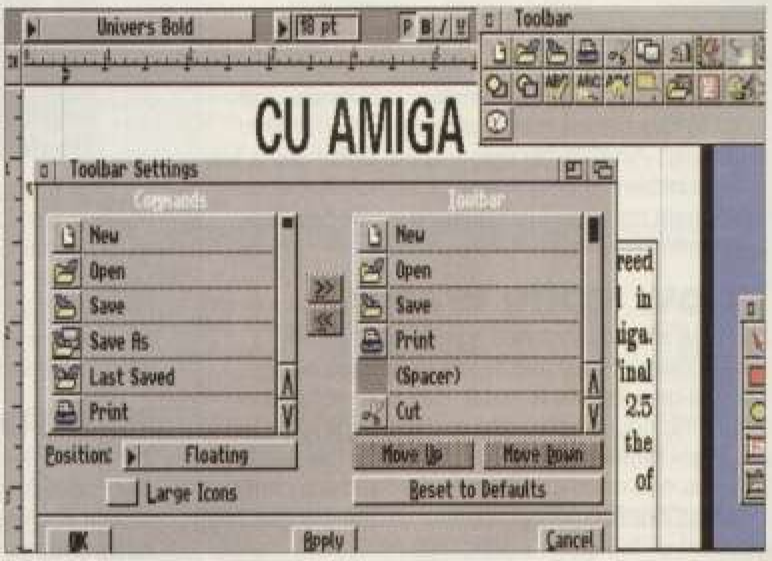
The only real difference to *PageStream* is how *Wordworth* handles text boxes. Taking a standard text box and resizing it will have no effect whatsoever on the text size. Stretching or condensing a Text Effects box has more impact. But even here it will only change the font to the closest point size, whereas *PageStream* will change the height and width of text independently. *Wordworth 3* also has a selection of graphics tools (box, rounded corner box, circle, oval and lines). These can all be edited, allowing you to specify internal fill colour, border colour and thickness.

IS IT A SPREADSHEET OR A WORD PROCESSOR?

Creating tables is very easy; simply select the table tool from the toolbar and then drag a box out to the desired size. This creates a box, sub-divided into smaller boxes called cells – effectively it is a table. Further rows and columns and text can be added. The colour and style of the table border and cell lines can all be manipulated easily, although you can't change the border style of individual cells.

Tables can also be used for simple calculations, mimicking a very basic spreadsheet, with operations such as sum, averages and totals possible in both columns and rows. Although limited in its operations, this mini-spreadsheet provides all that most users will need.

Picture import was never an outstanding feature of *Wordworth*, because it was pretty slow no matter which system you used and the printed images were poor. However, whilst still just as slow, *Wordworth 3* has dramatically improved picture printing facilities. Previously the program would convert the picture to the colour pallet range used for display, and then print this, now *Wordworth 3* retains the original data and the printed version works from this which gives a better quality print out. In terms of file formats Digita have really gone to town and supported many of the major non-Amiga formats:PCX, BMP, TIFF, GEM IMG, GIFF, and of course IFF. The import facilities even cater for structured clipart through CGM, GEM and DR2D although there's no support for GoldDisk CLIPP format.

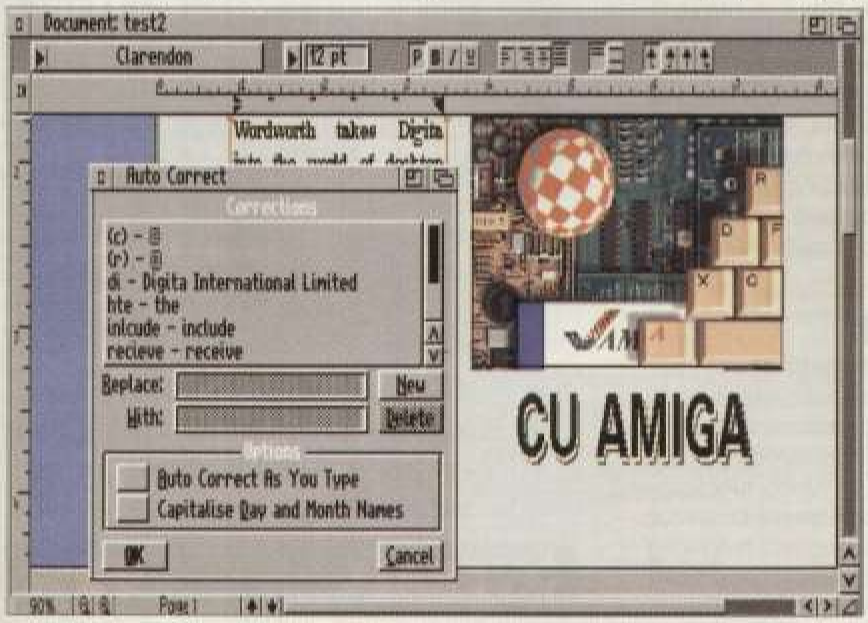


Wordworth 3 makes it easy to customise the Toolbar. Select the commands you want on the Toolbar and away you go.

PROBLEMS

Despite the numerous improvements, and many new features, *Wordworth 3* still has several major flaws. Existing *Wordworth* users will be disappointed to find that the import and redraw speed of pictures has not improved.

Also, given the change of direction towards DTP and the numerous new graphical facilities it is disappointing that there aren't any print preview or landscape printing options. The programs inability to handle Amiga standard structured clipart is a big omission. The absence of GoldDisk 'CLIP' format, is strange as it is practically the standard Amiga graphics file format.



(c) - ©
(r) - ®
di - Digita International Limited
hte - the
inlcude - include
recieve - receive

Digisense and Autocorrect can change text for you as you type. Here you can teach *Wordworth 3* your mistakes and what they should be replaced with.

These features, whilst annoying, are forgivable. What isn't forgivable is the large number of flaws and straight forward errors. *Wordworth 3* has bugs, horrible creepy crawly things with long legs. Some options don't work as documented, some operations crash, others throw up (almost literally) strange discrepancies.

Problems like opening a window revealing debug information when printing, text disappearing when changing the line spacing, not saving settings even though you selected the 'save setting' command and crashing when importing Ascii files are all problems that should have been spotted at beta test stage and should never have made it to a release edition. Whilst these problems remain I can not honestly recommend *Wordworth 3*.

CONCLUSION

Wordworth 3 is a potentially great piece of software and certainly has the power to rival *Final Writer*. However, the version reviewed (3.0), had an unacceptable number of silly bugs and I feel that I cannot recommend other WP users change. Existing *Wordworth* owners should consider what they want and only upgrade if they need the DTP features – otherwise wait for 3.0a.

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EASE OF USE ◆◆◆◆◆◆◆◆◆◆◆ **94%**
Pretty simple most of the time, although for some functions you'll need the manual.

VALUE FOR MONEY ◆◆◆◆◆◆◆◆◆◆◆ **80%**
£20 more than Softwoods Final Writer, for practically the same power.

DOCUMENTATION ◆◆◆◆◆◆◆◆◆◆◆ **90%**
A good manual, with helpful tutorials.

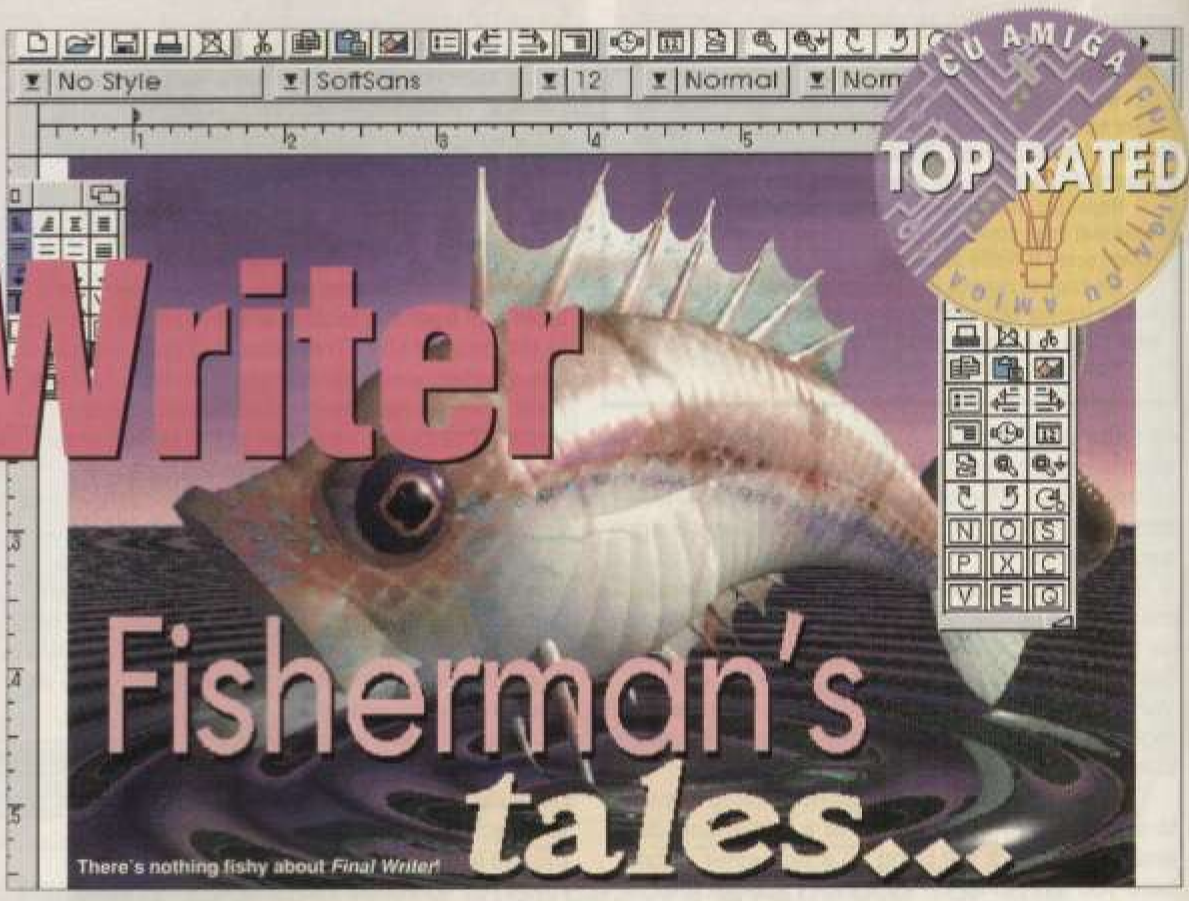
FLEXIBILITY ◆◆◆◆◆◆◆◆◆◆◆ **90%**
Loads of different features, does everything you'd want from a word processor and a lot more.

> *If the bugs are ironed out Digita will have a winner.*

OVERALL 75%

Jason Holborn takes a look at the latest upgrade of the Amiga's premier word processing package.

Final Writer
Release 2



Fisherman's tales...

There's nothing fishy about *Final Writer*!

Even with the release of Digita's much-hyped *Wordworth 3*, Softwood's *Final Writer* still rules the roost as the most powerful word processing package available for the Amiga, scoring a massive 90% – not to mention CU AMIGA's acclaimed 'Top Rated' award – when it was reviewed within these very pages little more than four months ago, Softwood have decided that there's still room for improvement. *Release 2* of *Final Writer* (which is available free of charge to registered *Final Writer* owners) not only fixes a few complaints levelled at the original, but Softwood have even managed to squeeze a few new features in to boot.

KNOW YOUR WRITES

If you've already installed a previous release of *Final Writer* to your machine's hard disk, all you need to do with this is install disk one which overwrites the original program and replaces a few of the *Final Writer* system files. This only takes a few minutes and once it's done you're ready to start.

Upon booting up *Final Writer*, it doesn't look too different — the same familiar 'Word For Windows'-like front end appears complete with *Final Writer's* pretty icon strips and rulers which run down the top and left-hand side of the page.

One complaint which was levelled at the original release of *Final Writer* was the lack of any form of 'Undo' feature. This meant that if you accidentally managed to delete something from your document, be it a section of text, a text box or a graphic image, there was no way of rescuing your document. Thankfully, *Release 2* of *Final Writer* fixes this with the addition of both an 'Undo' and 'Redo' option which effectively restores your document to original state before the last change was made. It's surprisingly intelligent too — if there's nothing in *Final Writer*'s 'Paste' buffer when you select 'Undo', the last sentence that you typed will be removed.

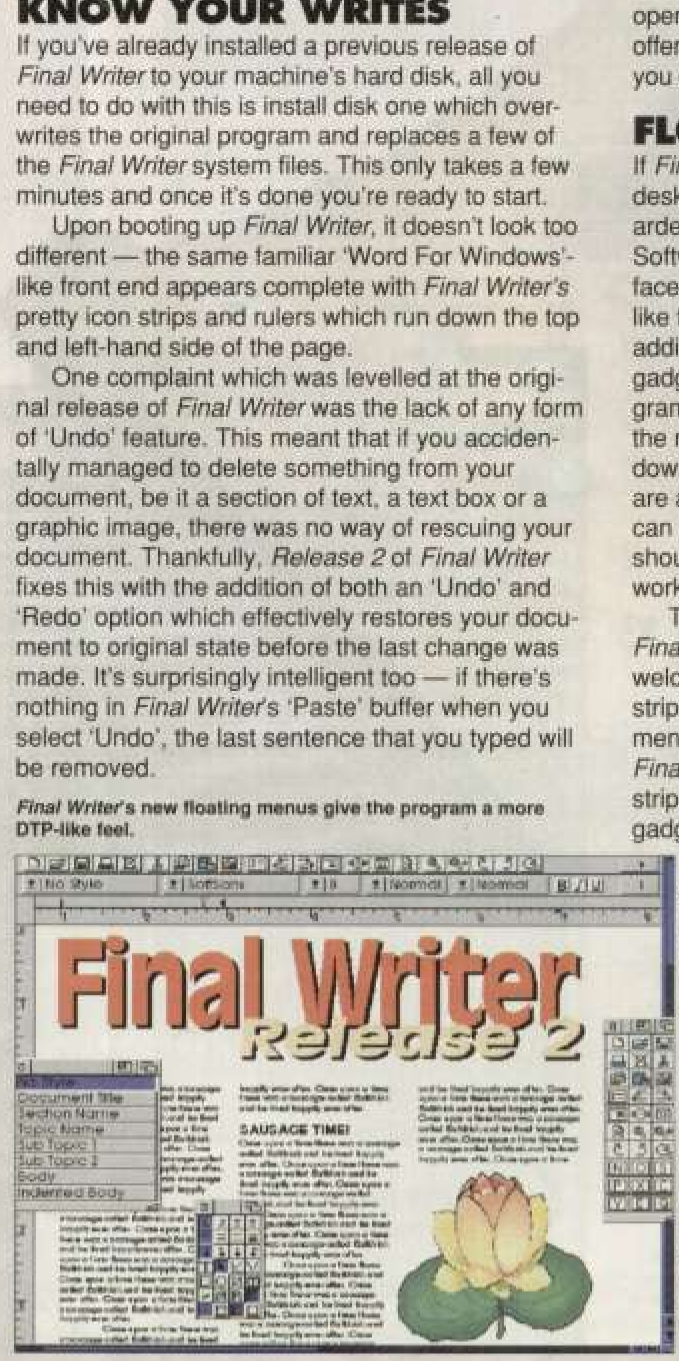
Only a single operation can ever be undone, however, which is surprisingly limiting. *Final Writer* would certainly have benefited from a much larger undo buffer which would allow a whole series of operations to be undone – programs like *Cygnus Ed* offer such a facility and they're a real bonus when you do manage to make a total hash of things.

FLOATING MENUS

If *Final Writer* didn't already look enough like a desktop publishing program to make even the most ardent *ProPage* fan take a second glance, Softwood have extended *Final Writer*'s user interface still further with the addition of *PageStream*-like floating menus. DTP fans will welcome the addition of these handy little windows, packed with gadgets, as they allow instant access to the program's many features without having to resort to the rather laborious task of sifting through pull-down menus. What's more, because these gadgets are all grouped together within little windows, you can reposition them anywhere on the screen should they start to clutter the area that you are working on.

The floating menus aren't really an extension to *Final Writer*'s user interface – they simply provide a welcome alternative to *Final Writer*'s existing button strips. Placing the tools gadgets into a floating menu is particularly welcome now that *Release 2* of *Final Writer* allows you to toggle between the tools strip and a brand new 'Font/Style' strip. This all new gadget strip provides a very 'Word for Windows' method of changing the font, style and point size of a selected area of text without having to wade through *Final Writer*'s various requesters. You can now also select bold, italic or underlines text without having to change the actual font.

Final Writer's new floating menus give the program a more DTP-like feel.



CONCLUSION

Release 2 of *Final Writer* certainly can't be seen as a major upgrade but it definitely enhances the product considerably. Not only is *Final Writer* now more conscientious (thanks to the overdue addition of an 'Undo' function) and easier to use, but it also seems to be a much faster beast too. The loading and redrawing of EPSF (encapsulated postscript) Clipart certainly seems to have been given an extra burst of speed, as have *Final Writer*'s comprehensive selection of drawing tools. All these enhancements combine together into a flawless whole that is sadly an unfamiliar sight in the Amiga market.

With the release of *Wordworth 3*, the choice between the two products is no longer so clear cut. *Wordworth 3* certainly offers a number of features which *Final Writer* lacks – table generation and Wordworth's spiffing 'text effects' being just two examples – but for raw word processing power and the sort of rock-solid reliability that users demand, *Final Writer* is still king. If you want the ultimate in Amiga word processing, look no further than *Final Writer*.

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EASE OF USE ◆◆◆◆◆◆◆◆◆◆ 90%
The addition of floating menus and an improved font/style strip makes Final Writer a joy to use.

VALUE FOR MONEY ◆◆◆◆◆◆◆◆◆◆ 81%
If you want a program that gives near MicroSoft Word-like power for considerably less money then Final Writer is for you.

DOCUMENTATION ◆◆◆◆◆◆◆◆◆◆ 89%
Softwood have always produced great manuals and Final Writer's manual is certainly no exception.

FLEXIBILITY ◆◆◆◆◆◆◆◆◆◆ 83%
May not quite rival MicroSoft Word on the PC but it's damned close.

> *About as close to a Word for Windows-killer as the Amiga has ever seen. Final Writer is an astonishing program.*

OVERALL 92%

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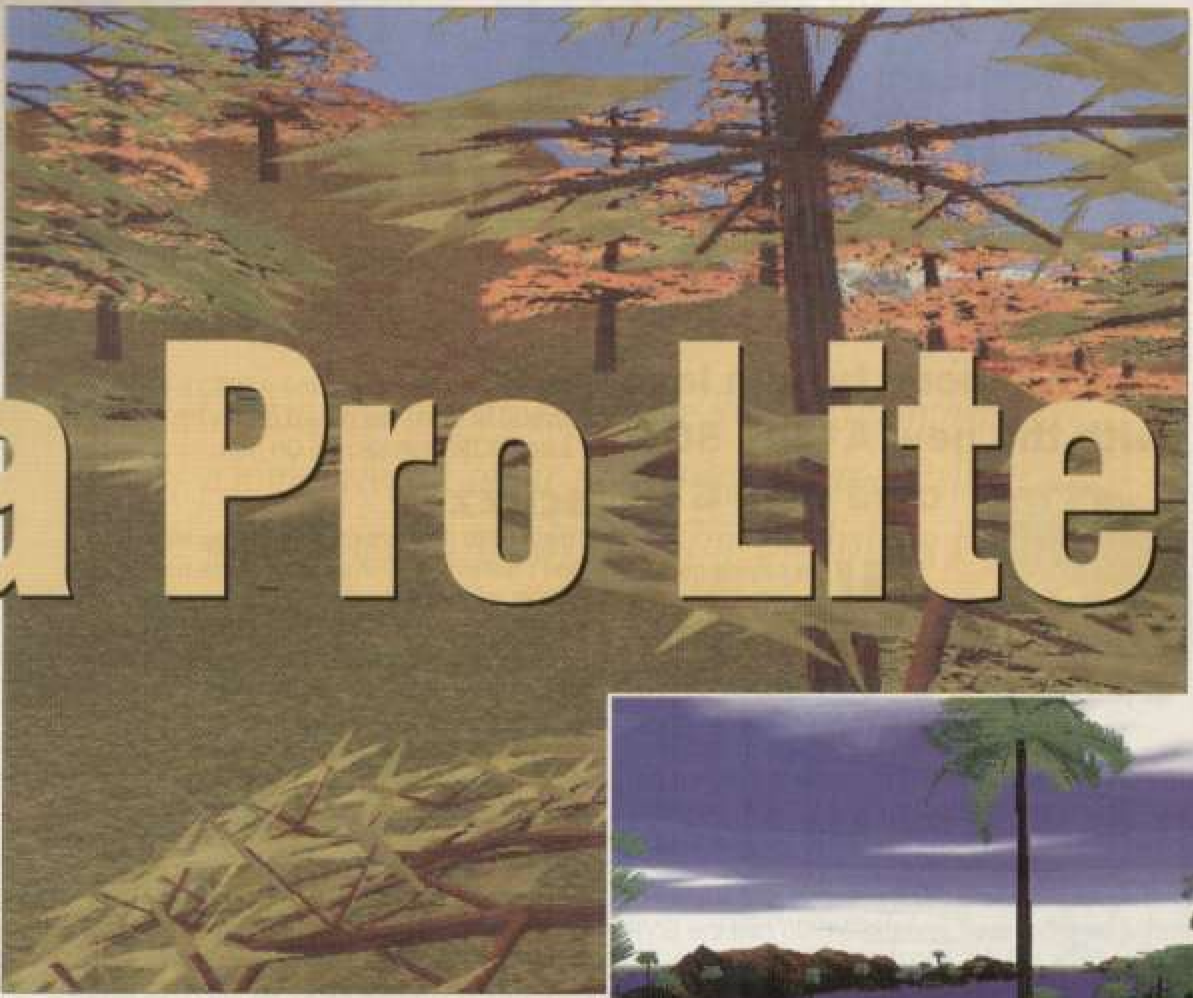
Virtually fat free? No added sugar? John Kennedy looks at the healthier alternative to an Amiga classic: Vista Pro Lite.

Vista Pro Lite



Amiga graphics fans know it already: if you want to generate realistic computer landscapes you need the Virtual Reality Laboratories' program *Vista Pro*. The only problem with *Vista Pro* is that in order to utilise the 24-bit and AGA colour hi-resolution image options of *Vista Pro 3.0*, you need a whopping 6Mb of RAM in your computer. This might be okay for the average A4000 owner, but what about all those A1200s with a standard 2Mb?

Now the new *Vista Pro Lite*, a cut-down version of *Vista Pro* has been written specifically for 2Mb computers. In fact, on the box there is a big gold sticker which says "Requires only 2Mb RAM!" just so you know for sure. And if, during a particularly large rendering, any large images burst through this limit, data is temporarily stored on disk. However, this means that you still need a hard disk, so until Vista Pro Helium-Lite appears, you will still need a little extra kit.

HOW LITE EXACTLY?

Vista Pro produces amazing pictures, but in order to squeeze them into limited memory with *Vista Pro Lite*, the full-colour 24-bit options have been taken out. The colour options are now limited to 256 colours or HAM8, which still offers a hefty 262,000 different shades and look excellent. All AGA modes are supported which allows some very large and detailed images to be produced – nowhere as large as the 4096 by 4096 formed by *Vista Pro*, but it is certainly enough to be getting on with.

Apart from the image size, not a lot has been removed from the *Lite* version. Buildings and roads (no matter what it says on the box) are gone, as have backdrops and foregrounds. Some plant life has also become extinct and *ARexx* is no more.

However, you still get several types of trees, fractal clouds, stars, a wireframe preview and excellent image quality.

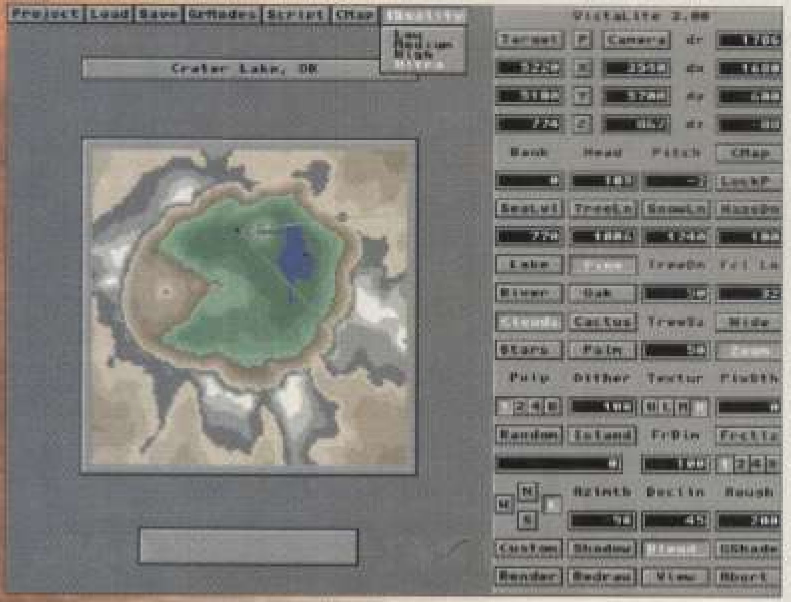
Using the 'time of year' option in *Vista Pro Lite* will automatically colour the trees.

BUT WHY?

Yeah, yeah I know what you're going to ask. Why would anyone want to spend hours rendering images? Well I don't know, okay? But I do know that I do it because it's fun. Planting trees, making rivers and lakes, switching clouds and stars on and off... it's a good feeling being God.

The scripting options provide ways to make animations, which can provide weeks of entertain- ment as you finish your jet flight around the Grand Canyon. The canyon is just one of several disks supplied containing official geographical data covering parts of the US and Mars. More disks are available (although again, only of the US and Mars) and rumours about CD-ROM versions are very promising.

The main control panel. Load landscapes, add rivers and trees and then select the render option and watch TV for a bit.



CONCLUSION

There are few snags with *Vista Pro Lite*. The Viewer Programs claims it can spool images directly off hard disk, but I have found that it refuses to work with certain makes of drive. Also, trying to get a IFF-Anim format is difficult, as *Vista* insists on its own format. Messing with the colour palettes can be frustrating. The images tend to bit a little on the dark side, which means if you have *Art Department* or *ImageFX* you might need to re-calculate the dynamic range. Nonetheless, these minor niggles aside, *Vista Pro Lite* is a great program, and now 2Mb Amigas can join in on the fun.

This image really shows off the excellent trees, fractal sky and grass effects. It rendered in HAM8 on an A4000/030 in about 10 minutes.

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EASE OF USE ◆◆◆◆◆◆◆◆◆◇ 90%
Point and click... wait ten minutes and the job's a good 'un.

VALUE FOR MONEY ◆◆◆◆◆◆◆◆◇◇ 80%
Good value, although the full version is only a tenner dearer. Think carefully...

EFFECTIVENESS ◆◆◆◆◆◆◆◆◆◆◇ 95%
Great pictures. They still look quite artificial, but could you draw better with Deluxe paint?

FLEXIBILITY ◆◆◆◆◆◆◆◇◇◇ 75%
Animation support is iffy. Add-on packages such as MakePath and Terraform add advanced features.

INNOVATION ◆◆◆◆◆◆◆◆◇◇ 80%
Cutting edge stuff, well it was a few years a go.

> *A welcome product for 2Mb Amiga owners.*

OVERALL 88%

GVP A1291

John Kennedy falls in love with the new A1291 SCSI card from GVP.

Wise saying number 16: "The trouble with the A1200 is that there is only one trapdoor, so you can only fit one peripheral at a time." Not so, glasshopper. The GVP 1230 Turbo II is the fastest thing on no legs which can be fitted to the A1200. I know this because I sat one next to an A4000/030 and set them both ray-tracing the same picture.

The A4000 had a 25MHz 68030 and a 25MHz maths co-processor, and the A1200 had the GVP board with a 50MHz 68030 (with MMU) and a 50MHz maths co-processor.

If all those numbers don't mean anything to you don't worry — basically they explain why the A1200 ran more than twice as fast as the A4000 and rendered images in less than half the time. What a bummer for A4000/030 owners like myself...

I consoled myself with the fact that the A4000 was considerably more expandable, with lots of Zorro slots and drive bays. But then, through the post, came the A1291 — a card offering to expand the A1230/II with a standard SCSI interface based on GVP's legendary FaaastROM technology. Oh drat.

SCUZZY?

The A1200 has two trapdoor expansion slots. Don't believe me? Well look at the back of the A1200, at the end where the floppy disk juts out. See that little hatch way? GVP certainly did, and they put it to a darn good use as this is where the A1291 fits in.

The SCSI card is tiny. At one end there is a small edge connector, and at the other end there is a female 25-way D-connector.

Fitting the card is child's play compared to squeezing in the accelerator. Pop out the little hatch at the back, slot the card in nice and straight and then screw it into place through that spare hole in the bottom of the A1200 case. Ever wondered what that hole was for? Now you know. It's like it was made for the A1291. Someone from GVP must have sneaked into Commodore HQ and drawn it onto the original A1200's plans. You can open the trapdoor to help guide the SCSI card into the socket on the accelerator if you wish, although I didn't need to. Then switch on, sit back and let the supplied software check the card is there and working, and prepare any SCSI devices.

NOW WHAT?

With the SCSI interface present and running, your only worry is what you connect it to. The most obvious choice is a nice big hard drive. Or seven nice big hard drives because unlike IDE, the SCSI interface allows up to seven devices to be daisy-chained together. The only problem with this lark is that you will probably need to be at least a little confident about using a screw-driver. The SCSI connection part is dead easy (only a matter of cable), but you'll also need to house the drives and get a suitable 5/12 volt power supply sorted out.

Several Amiga dealers should be able to help you on this front, as will any PC or Mac supplier worth their salt. It shouldn't take too many telephone calls before you've sorted out a nice smart enclosure and suitable PSU (power Supply Unit). (Try the RocMate hard drive case from Silica).

Getting the SCSI drive is easy too, get a PC mag and look in the small adds. SCSI is one of those oh so rare things — a standard that actually works. I had two SCSI drives lurking around, and both worked perfectly when connected via my home-brew lead.

There may have been wires sticking out everywhere, but I did have a 50Mb SCSI drive running at a very respectable 1Mb/second transfer rate. More modern drives should be able to increase this speed, which would make playing back sounds and animations from disk a lot smoother all round.

CONCLUSION

If you already have the A1230/II then you must keep an eye out for the expansion possibilities of the A1200. Adding the SCSI card allows you to release even more of the A1200's potential and will permit the addition of removable hard drives, CD-ROM players, flopptical/optical disks and tape back-up systems. There is only one word for this card: cunning.

It fits so cleverly into the A1200, that at no point do you need to open the A1200 and void the warranty. That is sheer cunning. CU

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EASE OF USE ◆◆◆◆◆◆◆◆◆◆ 95%

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VALUE FOR MONEY ◆◆◆◆◆◆◆◆◆◆ 80%

Not too expensive, and it makes an excellent option.

EFFECTIVENESS ◆◆◆◆◆◆◆◆◆◆ 95%

It might not be SCSI-2, but it's still a very fast interface. Who can afford SCSI-2 drives anyway?

FLEXIBILITY ◆◆◆◆◆◆◆◆◆◆ 95%

SCSI is the most flexible interface standard there is!

INNOVATION ◆◆◆◆◆◆◆◆◆◆ 97%

Very clever. Very very clever. I like it.

> *Cunning. That's the only word for it, cunning.*

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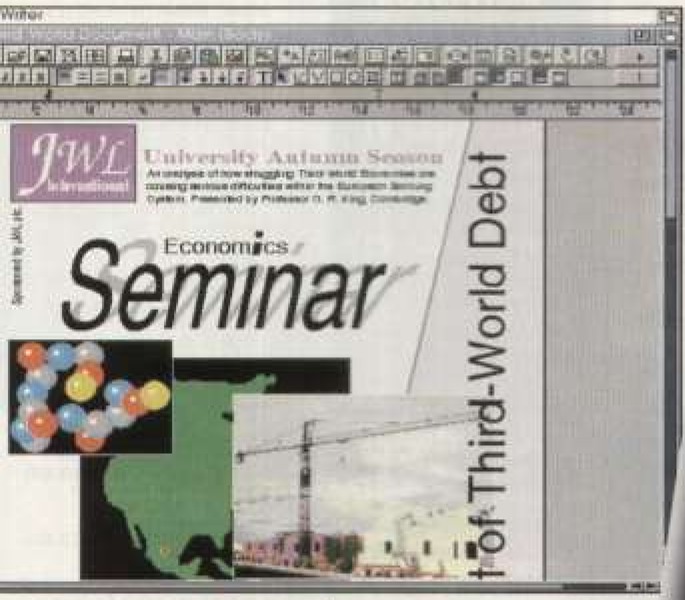

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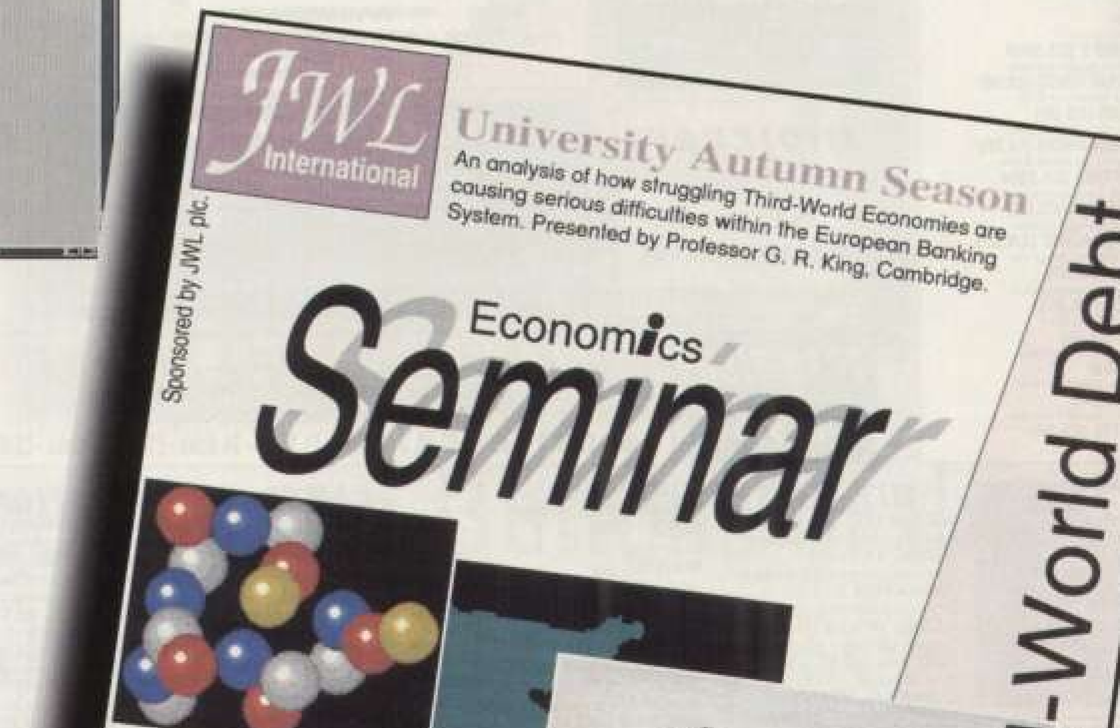

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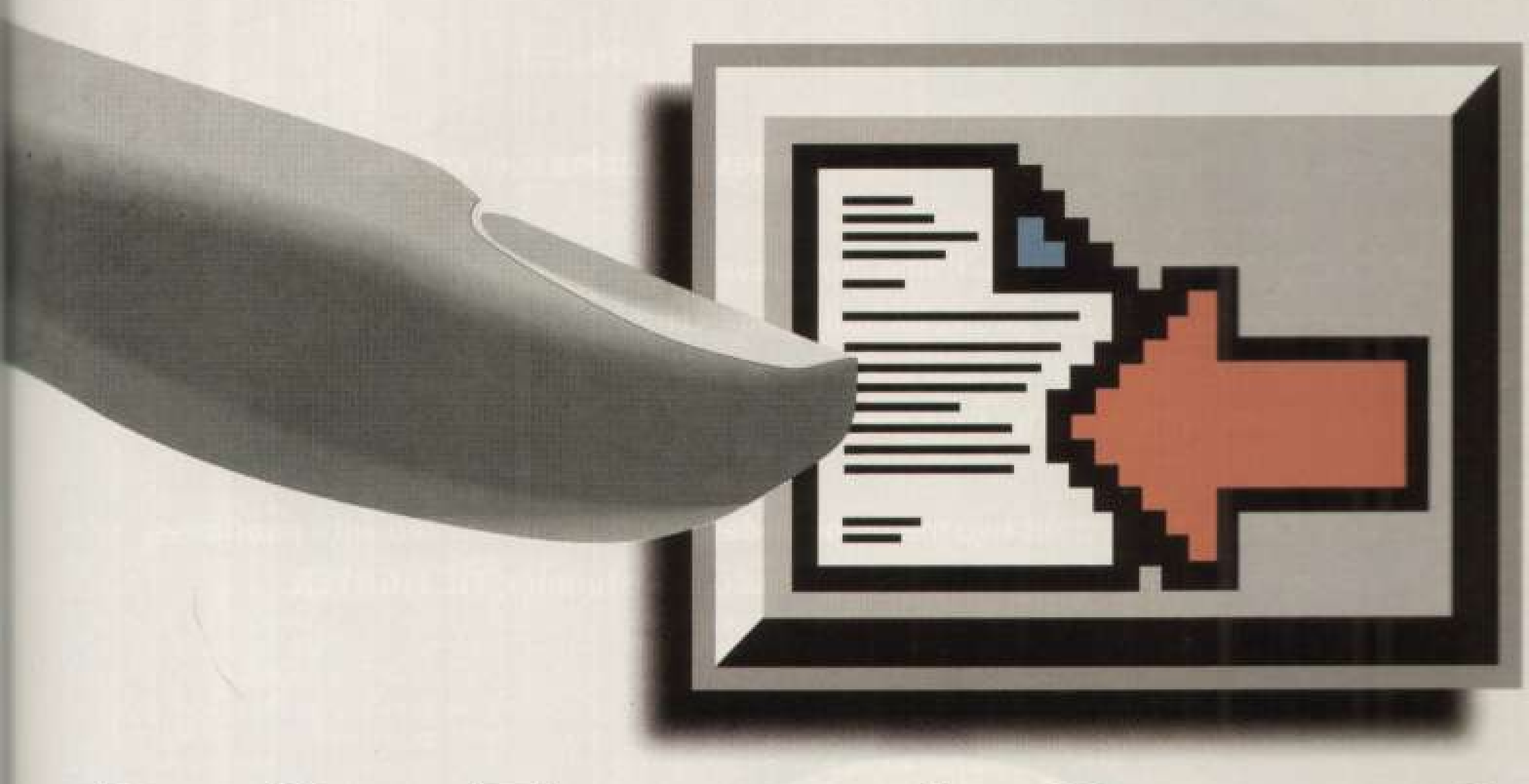

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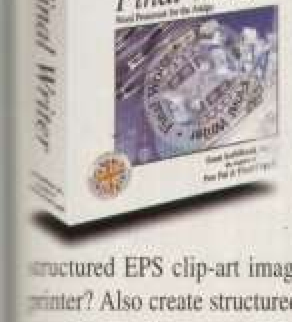

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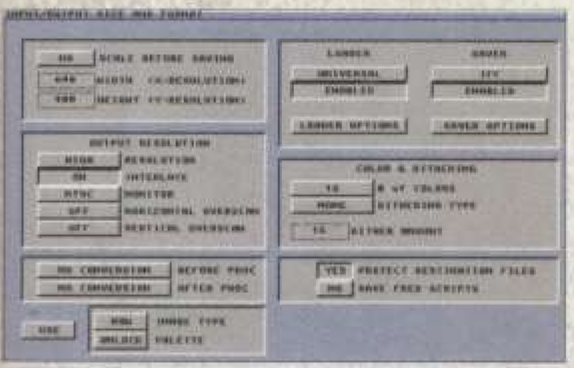
Multiframe for ADPRO

Art Department is one of the Amiga's foremost image processing packages. Mat Broomfield considers the merits of a program which claims to make Art Department even more productive.

Art Department Pro (*ADPro*)is a truly amazing package and one which has become indispensable to anyone that uses Amiga graphics. Whether you work in video, still frame or 3D animation, this program has something to offer. It provides the user with a large selection of image processing tools, ranging from simple ones such as screen format conversion, to more complex options like the ripple and tile operators.

However, these tools are all designed to operate upon single images, rather than sequences. At first, ASDG (the program's manufacturers) tried to overcome this problem by incorporating *ARexx* support into the program. This meant that it was possible to write batch processing scripts. The main trouble with that solution, is that you need to know how to program in *ARexx* to use it. Next came FRED, a list manager that was a tad better than *ARexx*... but not much!



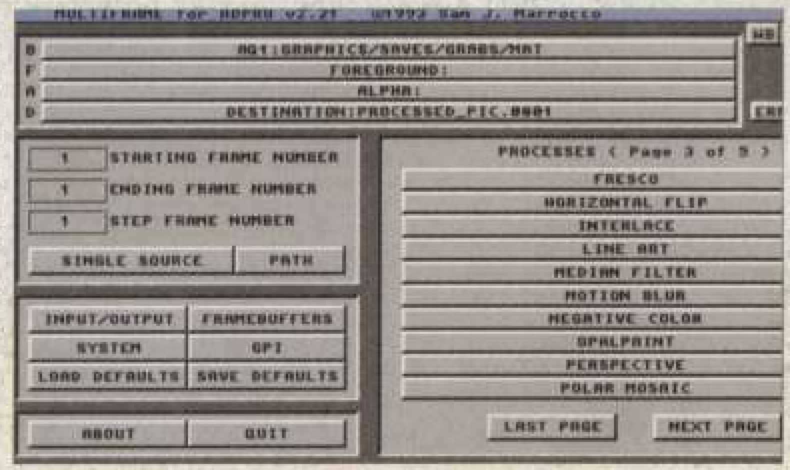
On a simple level you can just use MultiFrame as an image format convertor, transforming single frames or animations from one file format and resolution to another.

Then a guy called Doug Cranes wrote his own batch processor called *Pro Control*. This was the first program that let the user access all of *AdPro*'s features without using the keyboard. Still, it wasn't anywhere near as friendly as it might have been.

Now at last, from Macro Systems US, comes a program that makes multiple frame editing as easy as single frame work. *MultiFrame* is a companion program for *ADPro* which allows users to control the processing of sequences of frames with the same ease as single frame processing just using *ADPro*.

WHAT'S IT ALL ABOUT ALFIE?

The program runs in conjunction with *ADPro* or *MorphPlus*, and requires 1Mb of additional RAM to load it. If you want to work with 24-bit images, you're really entering the memory super-league in terms of the amount you'll need to use the program. I ran it on a 6Mb machine. *ADPro* immediately gobbled up 3Mb, *MultiFrame* took 1Mb and even a simple HAM-8 image stole another 0.5Mb. When I came to perform a single ripple effect, I just didn't have enough memory left over for the buffer required to perform the effect. Still, there are simpler effects, and I was able to perform these without trouble.



B: AG1:GRAPHICS/SAVES/GRABS/MAT
F: FOREGROUND:
A: ALPHA:
D: DESTINATION:PROCESSED_PIC.0001
1 STARTING FRAME NUMBER
1 ENDING FRAME NUMBER
1 STEP FRAME NUMBER

The program automatically generates its operator list by patching into your Morph Plus or *ADPro* operators directory.

Multiframe hooks into *ADPro*'s loader, saver and operator directories in order to ascertain what effects, etc it will support. These are then presented in various menus throughout the program. You can then select the base name of a series of frames, Frame.0001 for example.

After specifying the number of frames, the program will automatically load the subsequent frames as required, and perform the specified effect before saving the modified frame in the image format of your choice (IFF, TIFF, PICT, PCX or many others). This enables you to automate a process which would otherwise require hours of supervision if done manually.

Better yet, and unique to this program, is the fact that you can define effects over a set period of time. So, for instance, you could create a series of ripples which gradually grow and then diminish over 100 frames. Ideal for simulating rain! Or what about a gradually decreasing motion blur that simulates a moving object coming into focus? The possibilities are absolutely staggering, and this feature alone is enough to justify the asking price for any serious user.

MultiFrame is not solely for the processing of animation either. You could easily use it to execute multiple effects on a single image, performing them all simultaneously, and freeing you up to go away and do other things, rather than having to keep initiating phase after phase in some masterpiece that you may be working on.

As I don't really use batch processing features very often, a good deal of this program is beyond my needs, however, its graphical front end makes the setting up of effects very easy, and in this regard it leaves FRED, and even *Pro Control* for dead.

Unfortunately, I didn't find the manual inspiring or easy to get on with. I could understand it, but it was rather boring and presented in an illogical order. Surely tutorials should be near the front, before the detailed technical specifications?

CONCLUSION

MultiFrame is a very good product hidden behind a somewhat boring facade. For users who use *ADPro* to process animations, it will almost certainly inspire you as there is a lot of potential.

Despite the initial boredom with which I viewed this product, in just one long afternoon I've come to develop a healthy respect for it. I just wish it wasn't such a hog with the RAM! CU

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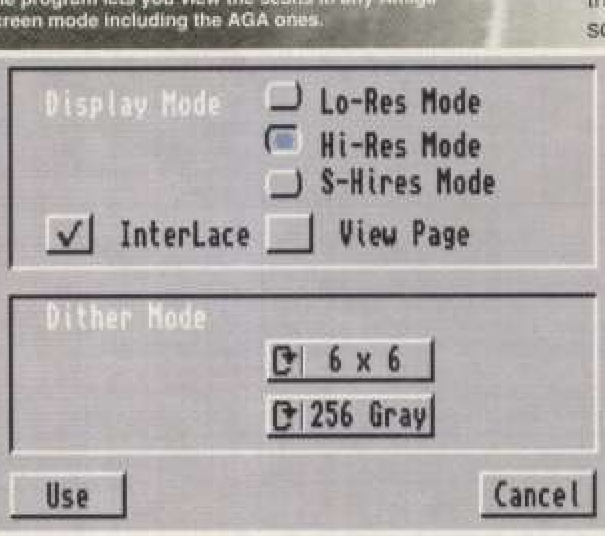
Alfascan 800

If you're looking to bring a new dimension in quality to your documents, the Alfascan 800 scanner has the power to deliver. Mat Broomfield talks in shades of grey...

This is an example of a photograph that I scanned and saved in 256 colours. As you can see, the fidelity is excellent and this is only in high resolution. The program lets you view the scans in any Amiga screen mode including the AGA ones.



Display Mode
○ Lo-Res Mode
● Hi-Res Mode
○ S-Hires Mode
☑ InterLace ☐ View Page

Dither Mode
6 x 6
256 Gray

A scanner is a device which can be used to convert images on paper into a format that a computer can use. They're ideal for anyone who wants to incorporate images (photographs or documents for instance) into their work. You can use scanned images with programs like *Final Copy* and *Wordworth*, and they're ideal for desk top publishing with software such as *Pagestream* and *Professional Page*. You can even incorporate scanned images into your own multimedia productions or demos.

Scanners have come a long way since their first appearance on the Amiga. Prices have fallen whilst scanner technology has increased. The Alfascan 800 finally closes the gap between 'professional' and 'hobbyist' scanners, offering unrivalled technology for silly money!

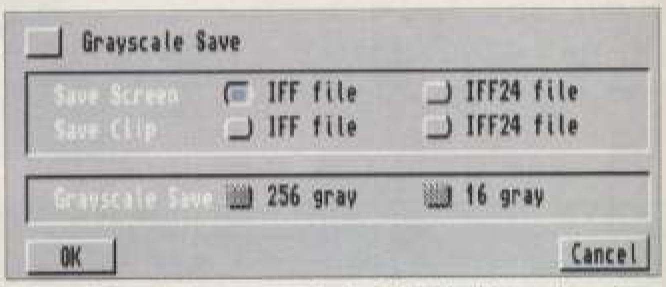
As its name perhaps suggests, the Alfascan 800 is an 800 DPI (dots per inch) scanner. That means that every inch of paper that you convert into a computer image will be divided into 800 dots (or pixels as they're called once they reach the screen). This figure is twice as high as any other hand scanner on the market.

SCANNER SIMPLICITY

The software is delightfully simple to use, although more professional users may bemoan its lack of additional processing features. The scanner program is divided into five sections: setup, scanning, merging, viewing and file options. In the setup section, you can specify your scanning preferences, including the scan length and scanner mode. The scanner mode is very important because unlike ordinary grey shade scanners, the Alfascan 800 comes with a small switch on the base which can double its scanning resolution. In High mode the scanner supports resolutions between 500 and 800 DPI, whereas Low mode only ranges between 100 and 400 DPI. However, although the software auto-detects whether the resolution switch on the side of scanner is set to 100, 200, 300 or 400 DPI (or the corresponding High resolutions), it can't tell whether the resolution is set to High or Low.

The software also detects the amount of free memory available and tells you the maximum length of scan that's possible at your specified width. Once you've set your preferences, it's time to take a scan, and this couldn't be easier. Just click the 'Scan' button on the screen, and holding the scanner button down, drag the unit across the area to be scanned. As you move the scanner, a monochrome image will be displayed on the screen. When the specified length has been covered, scanning will automatically stop.

The scanned image is now displayed on the screen at the resolution it was scanned at. At this stage the image will be far too large for you to see it clearly. You may want to save this monochrome image to be used exactly as it is. However, in order to see the image clearly on screen you can always convert the images into a number of grey scale formats ranging from low resolution 16 shade, up to super high resolution 256 colour images. The images can be converted using one of two dither meshes, an 8x8 pattern, or a 6x6. This determines the way the monochrome information will be converted into grey. The scanner uses a 6x6 mesh to create the images, thankfully, as the 8x8 produced horrible moire patterns. Once an image has been converted, it will be displayed on the screen, and you can again, save it in the chosen format or as a 24-bit image. The save requester is a little quirky. It works okay, but there seems to be a lot of unnecessary button clicking in order to store a image. You can also load images for subsequent editing and conversion, although only monochrome ones can be processed.



☐ Grayscale Save

Save Screen ● IFF file ○ IFF24 file
Save Clip ○ IFF file ○ IFF24 file

Grayscale Save ▨ 256 gray ▨ 16 gray

Although the save requester is a tad quirky, it seems to work perfectly well, and even lets you save 24-bit images. Some alien file formats such as TIFF, PICT and PCX would have been nice.

Despite its simplicity, the software uses quite a lot of RAM and even on my 6Mb Amiga, I was forever running out of memory, even with relatively small scans. I would like to see some form of virtual memory implemented in future versions of the software so that hard drive owners can use the software better. Alternatively, some crude form of continuous compression would help.

CONCLUSION

In value for money terms, this is the most powerful grey scale hand scanner on the market. Experienced users may find it a bit lacking, but this scanner is very easy to use and would be ideal for any beginner. CU

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EASE OF USE	95%
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VALUE FOR MONEY	90%
Compares favourably with 400 DPI scanners.	
EFFECTIVENESS	80%
The end results are great, but the software's a bit quirky.	
FLEXIBILITY	63%
Very basic in terms of software features.	
INNOVATION	85%
The first of its kind, but a logical step to take.	

> *A nice product that works especially well with AGA machines.*

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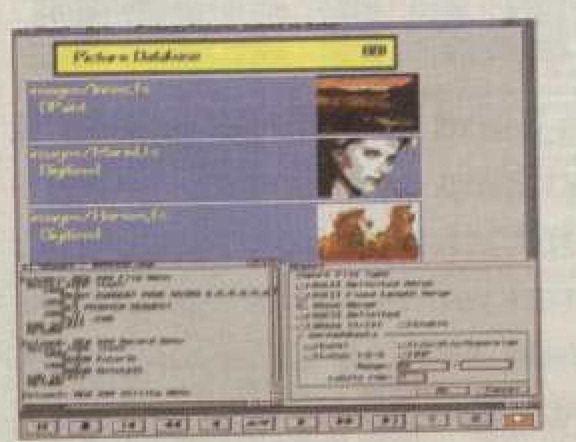

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We are pleased to announce that HiSoft is now the authorised UK contact point for Oxxi's SBase 4 Amiga products (formerly known as Superbase). We have stock of both SBase Personal 4.1g and SBase Professional 4.1g and offer full technical support for these programs with our Silver and Gold support options. We can also offer upgrades from earlier versions - please call or fax for details of upgrades and technical support.

SBase 4

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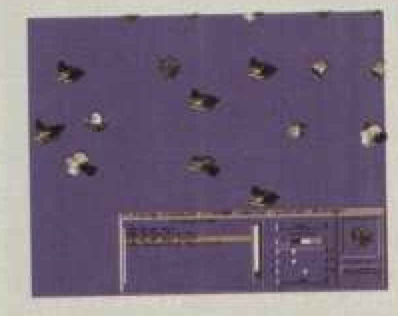
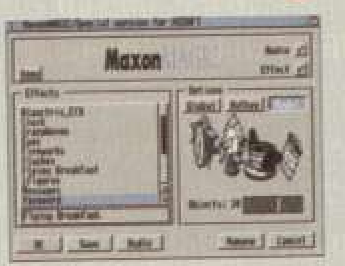
Utilities

Maxon Magic





This is the utility that you simply must own! Maxon Magic is a funtastic combination of 15 different screen savers, a system event sound player and many amusing sampled sounds that will not only be incredibly useful but will give you and your friends endless enjoyment as well.

the 'eyes' screen saver module in action

The Maxon Magic screen saver works in all modes, even with graphic cards, and offers you a choice of 15 different amusing and entertaining modules such as *Aquarium, Flying Breakfast, Fireworks, Crazy Worms, Messages, Clock* etc. As if that isn't enough value for money, Maxon Magic also lets you assign sounds to most system events including Window/Screen open & close events, Alerts, Keys, Mouse clicks, Requesters and more. Choose from the many sounds provided or simply use your own sampled IFFs!

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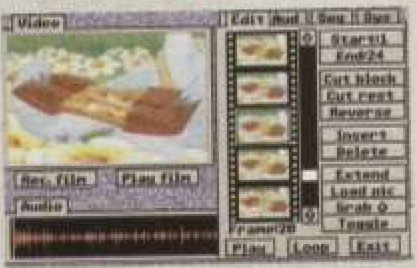


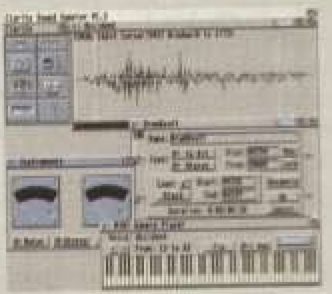
The best-value real-time video digitiser you can buy; VideoMaster gives you the ability to record real-time monochrome video with sound at 25 frames per second as well as quality full-screen stills from your camcorder or video recorder. VideoMaster RGB includes our new colour splitter, ColourMaster, and produces amazing quality colour stills.

VideoMaster AGA works on the A1200 and A600, connects via the PCMCIA slot for extra speed and freedom to use other peripherals, allows high quality stereo sound and supports HAM6 and HAM8 up to 640 x 512 resolution for stills.

ColourMaster

ColourMaster is a new electronic colour splitter which works in conjunction with VideoMaster for stunning colour stills.

Clarity



Clarity16 is our premier sound sampler allowing rates up to 32KHz in 16 bit stereo and up to 48KHz in 16 bit mono on an A500; accelerated machines can handle faster sampling rates. The software provides extensive features including full edit control, a MIDI keyboard emulator, a sample sequencer, many special effects and FFT analysis. Version 1.5 has an up-to-date Workbench 3 look, in its own window and is fully compatible with faster Amigas.

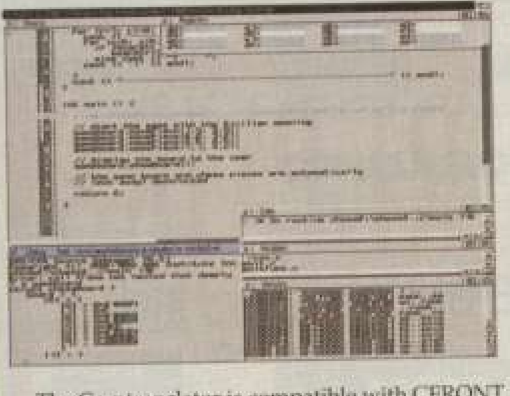
MegaloSound

Megalosound is the new 8-bit, stereo, direct-to-disk sampler package; the software is packed full of easy-to-use editing features, special effects and extras such as the ability to print waveforms and sample information.

The package allows sampling up to 84KHz mono and 56KHz stereo to memory and up to 21KHz stereo to hard disk on an A1200. Supplied with a hardware volume control and an extensive 144-page manual, Megalosound is impressive value at only £34.95.

Programming

SAS/C 6.5



The standard C compiler for AmigaDOS gets a major upgrade for 1994; now the SAS/C Development System (version 6.5) supports translation of C++ files with Streams and Complex libraries allowing you to write Object Oriented code.

The C++ translator is compatible with CFRONT Version 2.1 from AT&T. There's an improved peephole optimiser, more efficient stack extension and structure return code generation.

There are many other improvements including an enhanced instruction scheduler for the 68040 CPU and the 68882 maths coprocessor, an improved profiler, a friendlier interface to grep, support for C++ within CodeProbe and more. Workbench 3.1 include files are supplied. Upgrades start from £59.95 - please call for pricing information.

Prices

Clarity16 *new price*	*£129.95*
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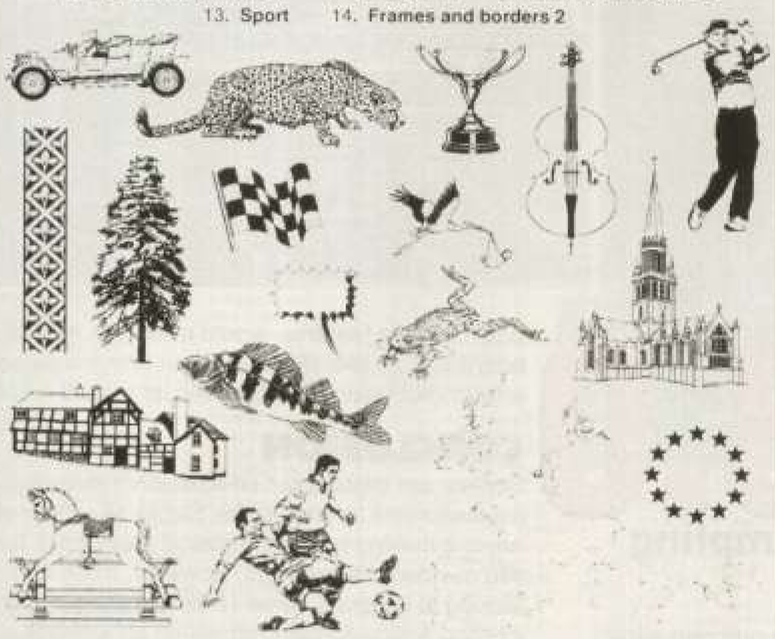

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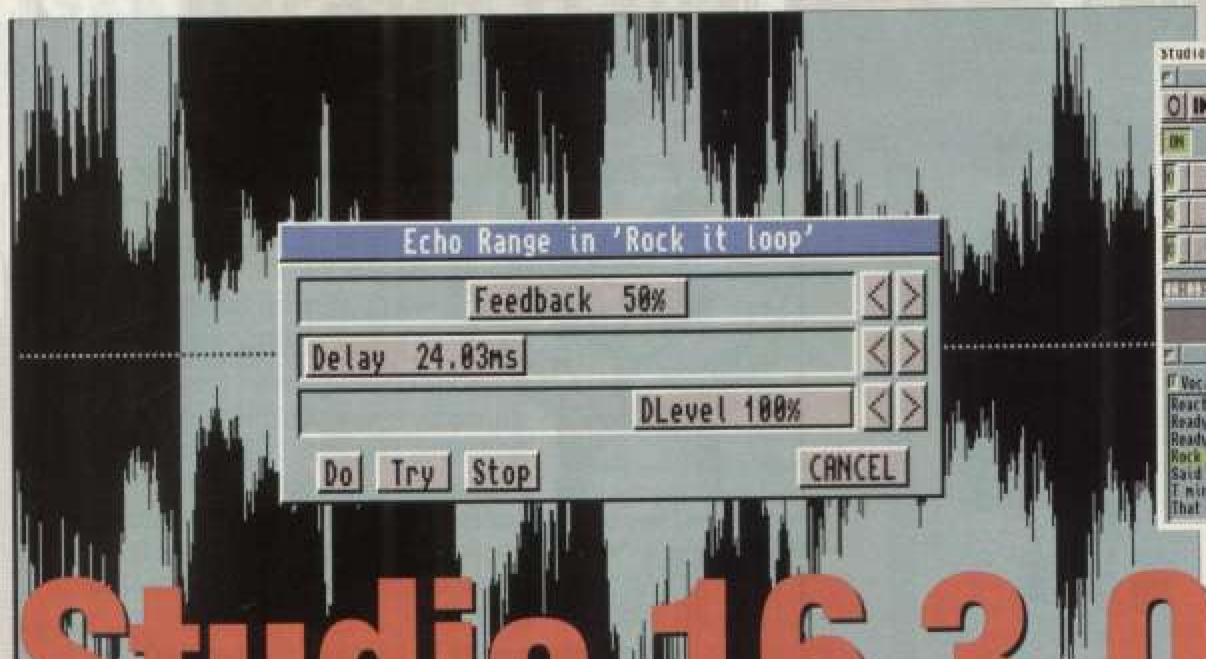

Echo Range in 'Rock it loop'

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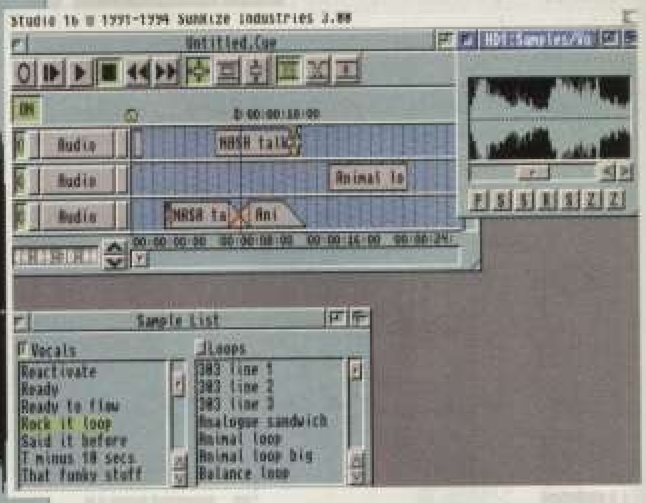
Delay 24.03ms

DLevel 100%

Bottom right: *Sudio 16* sports a radical new interface.



Studio 16 © 1991-1994 SunRize Industries 3.00

Studio 16 3.0

Tony Horgan looks at the latest hard disk sampling software from Sunrize.

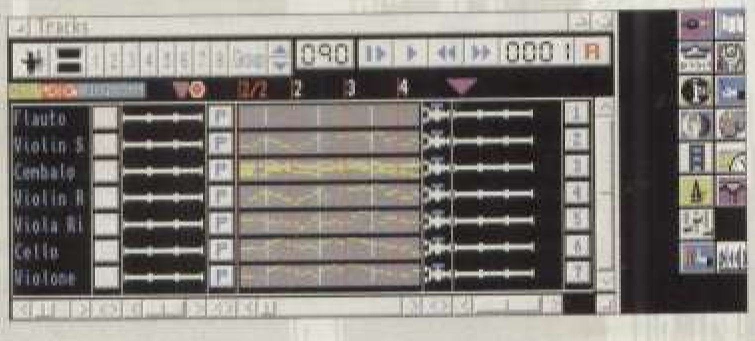
Everyone wants the Amiga's 8-bit sound upgraded to 16-bit, but no one seems to know how to do it properly. Sunrize released their AD516 and AD512 sampling boards for the 'big box' Amigas (A2000, 3000 and 4000). Even so, the combination of their *Studio 16* software and the sampling boards has disappointed many. Despite glowing reviews in the press, popular opinion seems to be that there's still not a satisfactory 16-bit sampler add-on for the Amiga. Sunrize hope to change this with the latest upgrade of the *Studio 16* software – the hardware remains unchanged.

WHAT DOES IT DO THEN?

The AD516 board isn't a replacement for the Amiga's sound chip. It's a Zorro card designed to fit into any box Amiga. Unfortunately, this rules out anyone using a 500, 600 or 1200. The system is based around recording samples to a hard drive, then playing eight of them back simultaneously. The main change in the software is the interface. The idea seems to have been to make it as simple as possible to use, and they've definitely succeeded on that score.

Once you've amassed a few samples on your hard drive, you can start making up a cue-list. This is where you sequence all your samples – a bit like the piano-roll part of a MIDI sequencer, only it's a lot simpler here. There is a horizontally-scrolling set of bars, each one representing a single track. All you have to do is pick up your chosen sample from the directory list and drag it over to the cue-list, where you can drop it in at will. Unfortunately, there's not enough control over the timing of the samples or their tuning to allow you to construct rhythms or melodies with your samples – basically it's limited to playing back one-shot sound effects samples.

It does this with ease though, using auto cross-fading features to bridge the joins between samples. Users of *Bars and Pipes Pro 2* can use the software link to synchronise playback of samples with MIDI music. The 'drag and drop' system of positioning samples is easy to use, but considering the potential of the hardware, the software still falls way short of what could be possible.



A software link allows you to control the board and *Studio 16* from within *Bars and Pipes*.

The modular structure of the program allows you to load and close-down various sections as you choose. One of these sections includes the sample editor. This acts pretty much like any other sample editor, with a graphical representation of the sample in a sizable window. The usual cut and paste edit functions are available, although you won't find many effects. There's a good variable echo (which benefits from a test option to let you hear what the settings will sound like), but nothing much else – no phaser, no distortion, no reverb and no time-stretching.

WHAT YOU'LL NEED

The performance of the system depends on the speed of your Amiga and your hard drive. With a 68000 processor, you can expect to play back two tracks simultaneously, six to eight tracks with a 68030, and with a 68040 with a very fast SCSI drive, you could chain together four AD516 boards, which would give you eight separate outputs and twelve tracks. A SCSI hard drive is recommended, although not absolutely essential.

Recording and playback rates can be varied from around 16Khz up to 44.1Khz (the standard CD rate) and even up to 48Khz which is the same rate used by DAT (Digital Audio Tape). When it comes to recording to video, the system can be synced using SMPTE timecode.

WHAT WON'T IT DO?

Using the board to play samples from RAM via MIDI is not an option. This is a great shame, as it could so easily be an excellent alternative to an outboard sampler such as an Akai S1000. Also, you couldn't realistically use it to master and edit a complete piece of music as one big sample. Again, the hardware would be capable of this, it's just the software that fails to deliver. Either, or preferably both of these features, would make the AD516 board and *Studio 16* software an immensely powerful combination, and broaden its appeal no end.

CONCLUSION

Sunrize are missing out on a massive slice of potential customers by limiting the *Studio 16* software. For anyone making up a non-musical soundtrack for a film or video, it's excellent. However, musicians looking to integrate some 16-bit sampling into their existing Amiga sequencing set-up should look elsewhere. I'd had visions of using the system to make perfect recordings of DJ mixes (recording a live mix from two record decks to the hard drive, and then cleaning up any mistakes and adding some extra remixing), but I was disappointed. I was ready for the lack of real-time MIDI triggered sample playback, but would again have been disappointed had I expected it. Still, video sound engineers should take a good look, despite these limitations. It's easily the best system of its kind available for the Amiga. CU

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EASE OF USE 90%

Very user-friendly 'drop-and-drag' system for sequencing samples. The modular layout allows easy customisation.

VALUE FOR MONEY 75%

A cheaper alternative to a reel-to-reel digital tape machine, but still pretty pricey considering its limitations.

EFFECTIVENESS 80%

A tricky one, this. It's very effective at producing non-musical soundtracks from a number of sound samples, but not much good at anything else.

FLEXIBILITY 68%

Flexibility is not a major selling point here. Considering the powerful hardware of the AD516 board, the software is very limiting.

INNOVATION 70%

Failing to push back the back the frontiers of Amiga sampling to any great extent, Studio 16 3.0 sports a slick new interface, but few new features.

> *A very competent update, but still fails to make full use of the AD516 board.*

OVERALL 73%

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S12...Bruce Lee Slides
S14...Adams Family
S15...Viz Mag Slides
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S20...Nasa Slides
S22-24...WWF Slides (3)
S27...Demons Slides
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S32...Neighbours Slides
S33...Roger Dean slides
S34...Iron Maiden Slides
S35-36...Tobias Richter (2)
S38...Basket case 2
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S40...Fraxion Devine 2
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S85...Gulf War Slides
S86...Magical Pics
S88...Gulf War Tribute
S89-90...S/Thing Fishy (2)
S91...Eldorado Slides

ANIMS

A1...Probe Sequence
A2...Ghost Pool
A3...Jogger + Magician 1
A4...Gymnast Demo
A5...Fractal Flight
A6...Basketball Demo
A8...Walker Demo
A9...Magician 2
A10...Pugs In Space
A11...Luxor Teenager
A13...Juggler Demo
A16...Cool Cougar
A17...Mono Cycle Anim
A18...Robocop Anim
A20...Mayhem On Wheels
A21...Jugette 2
A22...Shuttlecock Anim
A23...T-Pot Anim
A27...Fleet Manouvre
A28...Billiard Anim
A29...E/Prise Leaves Dock
A30...Starwars 2 Anim
A31...Star Trek Anim
A32...Fraxion revenge
A34...Madonna Anim
A35...Stealthy Anims 2
A36...Raiders Of The L/Ark
A37...Bugs Bunny Show
A38...Iraq V's UK Anim
A39...Mike Tyson anim
A42...Walker 2
A43...Walker 3
A45-46...Light Cycle (2)
A47...Exploding Head
A48...Police Car Chase
A49...Top Gun Demo
A50...Animators Demo
A51...5 Ways To Kill a Mole
A52...Another 5 Ways
A53...Batman The movie
A54...3D Spaceship
A55...Mr Potato Head
A59...Low Level Flight
A63...Amy V's Walker
A64...Real Pinball Anim
A66...Porky Pig Anim
A67...Adventures Of Chuck
A70-71...Max Overdrive (2)
A73...Spaceshuttle Anim
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A96...T-Pot 2 Anim
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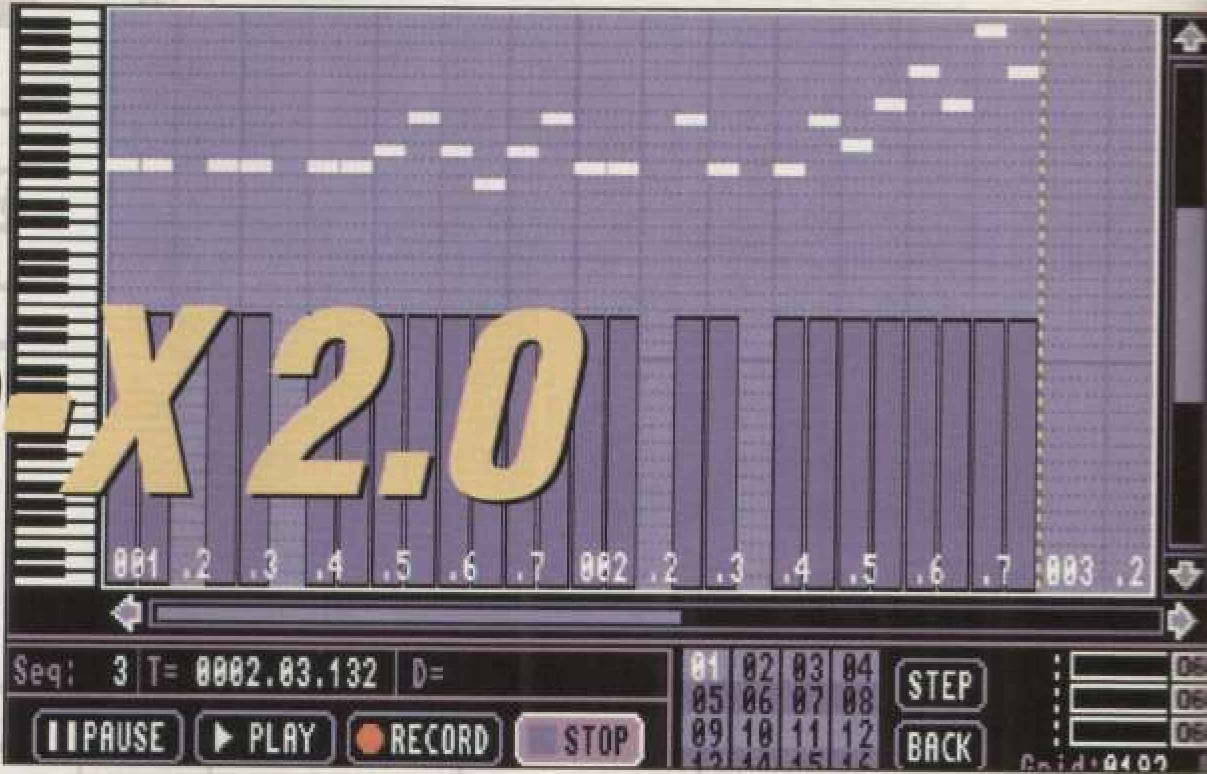
At last, one of the most eagerly-anticipated upgrades in Amiga history is here. Mat Broomfield checks it out.

Music-X 2.0



The Bar editor is one of my favourite bits of Music-X. It makes even complicated events easy to modify.

The original *Music-X* was a trailblazer in terms of user-friendliness and power, but it did have some shortfalls. Last month, we brought you an extensive preview of the long-awaited upgrade, *Music-X 2.0*, which promised to rectify one of the most glaring omissions in the original program, namely its lack of a notation section. This month, we look at *Music-X 2.0* and see if it lives up to its promises.

TOGETHER YET APART

Music-X 2.0 is made up of two programs; *Music-X* and *Notator-X*. *Music-X* is nearly the same as *Music-X 1.1*, except it has been updated to work properly on AGA machines, and more importantly, to work with Notator-X.

On the plus side, *Music-X 2* offers far more notation tools and a much more stable interface than *Deluxe Music*, and whilst it's not as powerful as *Bars & Pipes Pro*, it provides a much friendlier interface.

However, unlike programs such as *Bars & Pipes* and *Deluxe Music Construction Set*, *Music-X 2.0*'s notation section isn't truly integrated with the sequencer. This can be a problem because even though both parts of the program can be loaded at the same time, and data can be swopped between them using a kind of hot-link, it's not easy to quickly notate a few bars of music and then listen to them via the sequencer. Nor is it possible to assign instruments to a score from the notator. This means that the program is not as helpful or as good as it could be, either as a composition tool or for orchestration.

EASY EVENTS

Editing Midi events is an example of the program's friendly interface. Editing is done primarily via the sequencer (*Music-X*) which is subdivided into a number of different parts such as the Sample Editor, the Bar Editor and the Librarian.

JARGON BOX

BAR: A subdivision of a musical score, used both as an aid to note alignment and as an indicator of the 'beat' (metric stress) of a piece of music.
HOT-LINK: A way of linking two programs so that data can be exchanged between them without having to save it first.
MIDI: Musical Instrument Digital Interface. A protocol for electronic communication between primarily instrumental devices and computers (although it is possible to get MIDI lighting and effects units).
NOTATOR: A program which allows the use of formal notation to enter music.
SEQUENCER: A program designed primarily for recording MIDI events in real-time. These will usually be entered by playing a MIDI instrument. The musical performance will be recorded as a series of digital instructions which specify both the notes played, and the way that they were played. These instructions can then be stored or sent to any compatible instrument which will then exactly duplicate the performance.

MIDI events may be altered via the Bar Editor. Most musical events are represented by bars (of the rectangular kind, not musical) on a piano roll. You can edit these bars by simply dragging them around the screen. There's nothing unusual about adding and moving notes in this fashion, but when it comes to more complex events such as polyphonic aftertouch, pitch bend and even velocity, it's refreshing to encounter such a clean and simple interface.

Music-X 2 has been designed to use sound samples with the same sort of flexibility as it uses MIDI instruments. When the original version was designed, it was very powerful, but now its sample handling seems somewhat simplistic, not even allowing you to specify a preferred replay channel. Mind you, I think it's still the only sequencer that can handle the .ss synthetic sounds more frequently associated with Sonix.

With *Notator-X*, score entry is very tedious, primarily due to a number of frustrating flaws (such as the 18 stave limit) which becomes more noticeable each time the program is used.

Nevertheless, *Notator-X* probably has the most elegant printing and notation section of any Amiga program. It certainly supports a wider range of symbols than all the top-rated programs.

CONCLUSION

Music-X 2 is a nice piece of software. I use the word 'nice' deliberately to indicate that superlatives like 'great' or even 'good' would be an overstatement, whilst a generally negative tone would be unfair.

The core program (the sequencer), however, doesn't appear to have changed much since *Musix-X* was first launched onto the market five years ago. I would have certainly expected some modifications reflecting the big advances in music technology, but sadly, apart from AGA compatibility there aren't any.

On the plus side, the Bar Editor is a masterpiece of user-friendliness and elegance, and is one of the high spots in the program.

Notator-X is good, if somewhat laborious to use. There are just too many niggling irritations, like the fact that the music cursor doesn't automatically scroll to the next available spot after you've entered a note. You also have to manually scroll the screen on to the next bar when entering notes which is an incredibly annoying flaw. Unfortunately, the manual was of little help, as it was very verbose when referring to *Music-X* and overly brief when discussing *Notator-X*.

I have to admit that I was primarily interested in the notation part of this package, and as such found that it failed to fulfil its potential. I loved it when I first saw it, but a month of constant use has really opened my eyes.

However, despite these reservations, *Music-X* lands somewhere squarely between *Deluxe Music* and *Bars & Pipes* both in terms of both power and user-friendliness. CU

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A great idea if only the two programs worked together a bit more closely.
FLEXIBILITY ◆◆◆◆◆◆◆◆◆◆65%
Music-X is very flexible but Notator-X is the opposite.
INNOVATION ◆◆◆◆◆◆◆◆◆◆50%
Nothing new except a few of the Notator-X symbols.

> *“Not bad, but after more than two years of development it should have been amazing.”*

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☐ ^ ^ **V1090 ANDYS (AGA) UTLs** Another selection of utilities for A1200 owners also includes FakeMem, KRAGA, AGAtest, Degrader.

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☐ ^ ^ **V1095 THE DEGRADERS** If you have trouble running software on an A1200 or A4000/030/040 give this disk a try it will emulate the basic 1.3 rom better that any other software on the Amiga at present.

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☐ ^ ^ **V1137 (AGA) UTLs 4** Test, BBlank, CheckAGA, CycleToMenu, Doublex, Force VGA, GIF Datatype, PKludge, PPShow, Rend24, ViewTek and Verlauf.

☐ ^ ^ **V1138 (AGA) UTLs 5** Degrader, Play-Roy, AmigaToDouble, CardMemLast, Palette, Promotor, RomTagMem.

☐ ^ ^ **V1139 (AGA) UTLs 6** A4091Patch, Alert Timer, Bestd, Clouds, HamB, JPEG, NewPOP, NTSC/NTSC, PatchPointer, Plasma PCX & Screen Mode changer.

☐ ^ + **V1140 FOOTBALL FORECAST** v1.2 This is the latest and most upto date football results prediction program. New instructions.

☐ ^ + **V1141 MANDELPLOT v2.4** Does'nt just produce 2d fractals, can view them in 2d or 3d modes, make animations, even design your own fractals. Fastest mandel-brot producer.

☐ ^ + **V1144 GRAPHICS** Contains JPEG files, DJPEGOut v37.1, MakeAnim7, BestAGA anim playback, S-Anim-5 v1.1, S-PIC v1.2.

☐ ^ + **V1145 MENUMASTER III** If you want to produce a simple menu system, this is it wether for a hardsk or a floppy disk.

☐ ^ + **V1147 EASYBENCH** Contains a wide selection of utilities which covers almost all the best utilities on the Amiga **(2)**

☐ ^ + **V1152 GOLDED v.94** A GUI Based editor with lots of functions/options (about 250), DICE compiler front end, OS3 look. **(2)**

☐ ^ + **V1154 MAGIC MENU v1.27** Replaces all Intuition menus, suppering both pull-down and Pop-Up. Menus can displayed in a 3d look.

☐ ^ + **V1156 VIDEO TITLER** Can you generate professional looking TV titles and credits for you own videos. Well you can with this, it has outstanding abilities.

☐ ^ + **V1161 GOALKEEPER v1.0** Computer soccer administration program. Create your own Mini Football leagues upto eight teams.

☐ ^ ^ **V1164 ASI A1200 FIX DISK** Contains all what you would need for getting disks to work on your new a1200 computer.

☐ ^ + **V1177 BETTERBENCH** Yes its another intresting Workbench utility disk packed 99% full of utilities and documents.

☐ ^ + **V1178 KICKSTART 3 EMULATOR** This disk is a multi kickstart selection utility disk. You can select Kickstart 1.3 (34.005) Kickstart machine (as if is Kickstart 3.0 (39.106) No AGA support but a superior Workbench ect.

☐ ^ + **V1179 FILE-O-FAX** Designed for you to work at your own leisure without worrying about forgetting those important meetings, or names, address, tel Numbers ect.

☐ ^ + **V1184 AMIGA DIARY** Is a mouse driven diary capable of storing all personal events and is the solution to those forgotten birthdays, missed appointments ect.

☐ ^ + **V1185 GENE** is a new genealogist database which will keep track of info.

☐ ^ + **V1194 DESKTOP VIDEO** Is a disk with making and editing your very own video masterpieces. Contains excellent software.

☐ ^ + **V1200 MAGIC WORKBENCH** Is a selection of icons & items to enhance your Workbench screen and environment.

☐ ^ + **V1207 OCTASTUFF** A new collection of utilities some samples some modules for use with the famous OctaMED programs.

☐ ^ + **V1208 OCTAROCK** A selection of rock [illegible]

☐ ^ + **V1209 GNU C++ COMPILER** Requires HD 4Mb+. There's been upgrade to the latest version of the GCC environment. Thus the compiler, driver, assembler, linker, header files, [illegible] **(3)**

☐ ^ + **V1213 PROGRAMMING** Contains the Programming languages like, Ace, Amigal, [illegible], BCPLAAAK, EDLF, Pascal and others **(2)**

☐ ^ + **V1219 THE AREXX GUIDE** Full Amiga Guide document to teach you Arexx. Tip files with easy cross referencing.

☐ ^ ^ **V1220 TERMINUS** Modern Terminal program. Full featured, scripts, screen modes, [illegible]

☐ ^ ^ **V1221 (AGA) BLANKER** [illegible] for WB v3 a only it has 14 different blankers all ready to show off your AGA machine.

☐ ^ + **V1222 PANASONIC STUDIO** Special printer Preferences editor and driver [illegible] for all Panasonic 9 & 24 pin printers.

☐ ^ + **V1223 CANON STUDIO** Special printer Preferences editor and driver [illegible] for BJC 800, [illegible] 10, 20, 200, 230, 300, 330.

☐ ^ + **V1226 ANIMATION & PAINT** Direct Action, [illegible] a slideshow and [illegible]

☐ ^ ^ **V1227 GADTOOLs** Contains a collection of standard libraries intended to provide programmers with new GadTools.

☐ ^ ^ **V1228 WB 2.0 UTILs 7** Contains another excellent batch of new utilities for WorkBench 2.0 and 3.0. [illegible] A tool to monitor illegal memory access. Assign Manager. A new text editor. [illegible] A computer replacement for [illegible]

☐ ^ ^ **V1229 (AGA) MAIN ACTOR v1.16** A modular animation package with many features. IFF-Anim 5/7/8, [illegible], PCX, [illegible] from Hard disk or play in a window. **(2)**

☐ ^ ^ **V1231 HD SOUND UTILs** Contains Sound, SoundMachine, [illegible] An intuition based music tracker that uses the internal sound capabilities of the Amiga. HD, Frequency, is a HD recording system with many features, [illegible]

☐ ^ + **V1235 BLACKBOARD** v1.2 is an image processor written specifically for the AGA chip-set machines. Will load & [illegible] IFF, Sculpt files, you can also Shade, Colour, Crop, Scale, Mapping, Edit, Rectangle, Change [illegible]

☐ ^ + **V1236 INVOICE PRINTER** [illegible] invoices onto your letterheads. Much sort after. Ideally suited to a small business.

☐ ^ + **V1237 SUPERSPELL** A good spelling checker for use in any program you are using under. Has a 9,000 word dictionary which you can edit, add, restrict ect.

☐ ^ + **V1238 KICKSTART SAVER v2.0** Functions include load disk [illegible], load file, kicksum, makekick, save file ect.

☐ ^ + **V1239 SKICK PRO v3.42** Is the replacement for Kickit, Zkick, and skick ect intended for use on KS2.0 machines and its task is to soft-kick any other version of kickstart into RAM. Enhanced KS3 [illegible]

☐ ^ + **V1240 SHOW STD v1.2** Is a tool that can be used to show the area covered by a particular STD code on a map on the UK. Flying Toasters, [illegible]

☐ ^ ^ **V1241 THE PD OFFICE** Is a little collection of wonderful utilities like [illegible] Pro, AddressBook, EasyCalc ect.

☐ ^ + **V1242 RE-ORG v3.11** Is a fast shareware disk optimizer for AmigaDOS.

☐ ^ + **V1243 IMAGE 2 DOBJECTS** Volumes 4 to 7 packed to bursting point of images for use with that amazing program Imagine. **(4)**

☐ ^ + **V1247 TEXTURE MAPS** in 320x200 JPEG format for use with any rendering programs, textures like Organic, Miscellaneous, Stone, Wood ect. **(2)**

☐ ^ + **V1250 SOLDERING** Contains many useful tools for drawing good quality circuit diagrams, and also aids [illegible] solder board lay-outs, complete [illegible]

☐ ^ + **V1265 DYNAMIC SKIES** [illegible] for astronomy that has, for an ultimate goal, to answer with speed any question that may arise on celestial objects. [illegible] animate Jupiter's path across the sky **(2)**

☐ ^ + **V1269 OCTAMED TUTOR** A simple guide through the basics of the excellent music program. From OctaMED3 & upwards.

☐ ^ + **V1270 PRO BINGO** Brings all of the entertainment of Bingo to the computer.

☐ ^ + **V1271 THE DARK ROOM** will help you learn how to develop films to [illegible]

☐ ! - **V1272 CDTV->CD32 ADAPTOR** will help you make a lead so that you can use a CDTV keyboard on a CD32 machine.

☐ ^ + **V1273 AMICDROM** v1.7 A CD-Rom disk filing system for the Amiga. It supports the ISO-9660 standard and will mount the drive as a dos device e.g. CD0: You can even access files and directories on a CD.

☐ ^ ^ **V1274 KNIT v1.01** Converts an IFF pic into a knitting pattern. **VIDEOMAKE 04.20** A video database that satisfies all needs of a private video user. Full OS 2.1+.

☐ ^ + **V1275 RUSH** v1.0 is a directory utility for AmigaDOS 2.0 or greater. It allows files and directories to be manipulated quickly and easily. **PEOPLETREE** What it offers you is the ability to compile a [illegible] family tree for your self. **AMBUSH** can be of used to developers, who may wish to test programs.

☐ ^ ^ **V1277 STAR STUDIO** Printer driver software for controlling any printer printer.

☐ ^ + **V1278 MAIL-O-DEX** An excellent way to keep names, addresses, Phone numbers, ect & then print them out.

☐ ^ + **V1279 PRINT-A-CARD** Want to print a business card or any other type of card then this is the software for you.

☐ ^ + **V1280 DIVIDEND WINNER & PERM CHECK** Is a pools prediction aid which will advise which numbers to enter on your coupon based on sequence prediction.

☐ ^ + **V1281 SMARTY PAINTS** The whole idea is for your kids to have a serious art package with usable & interesting facilities.

☐ ^ + **V1282 FOOTY v1.4** Is a dedicated football database, sit back in your favourite chair with your mouse-mat on your lap and keep track of whats happening in the football league.

☐ ^ + **V1284 PC FORM LETTERS** Just load em into your fave WP and insert your own details then Voila ! Instant business letters!

☐ ^ + **V1286 PRINTER DRIVERS 7** Now also contains the program called sd for easy installation of the Printer Drivers.

☐ ^ + **V1287 LEARN IN SPACE** Let your younger children learn how to add, subtract while playing. Ages 4-7 years.

☐ ^ + **V1296 EAGLE PLAYER v1.41** Is Germanys best selling module player stroke construction package which supports over 80 music makers and trackers. **(2)**

☐ ^ ^ **V1302 XFH-HANDLER v1.34** Is a DOS handler which uses xpkmaster library to provide transparent access to compressed files in a given directory or partition. All compression/ decompression is done automatically by the handler when files are read or written.

☐ ^ + **V1303 SCALA BACKGROUNDS** Pictures are in 736x560 16 colour format for use with The program Scala. Theres about 15 pictures in total and are very sharp indeed. **(2)**

☐ ^ + **V1305 VIRUS WORKSHOP v3.2** This version killer was produced to get rid of all the viruses hanging around. Takes over where BootX has left off.

☐ ^ ^ **V1307 NETWORKING** Contains utilities to help aid in Networking your Amigas like AmigaNOS, DNet, Par/SerNet, also contains various update devices and libs. **(3)**

☐ ^ ^ **V1310 GUIDEs** Contains AGAGuide, which gives full Amiga Guide information and Libs Guide is a Guide to the Amiga Libraries, Where to find almost every Library.

☐ ^ + **V1311 CDROM** Contains a selection of CD Rom related utilities like CDTV Player v2.2, PlayCDDA and ReadCDTV.

☐ ^ ^ **V1313 GBLANKER v2.7** Is a complete modular screen blanker package designed with DOS 2.04 or better in Mind. 14 Different Blankers and a message system.

☐ ^ + **V1314 HP4L v2.01** Contains a printer driver for the HP Laserjet 4L printer.

☐ ^ + **V1321 EdWord Pro v4.1** Is about the best Public Domain / Shareware Text language editor or Word processor on the Amiga with over 100 features. By M.Reddy

GAME DISKS

☐ ! - **1072 TETRIS ORIGINAL** This is the closest game to the original tetris.

☐ ^ + **1420 DTRIS** If you want a 1 or 2 player Tetris this has to be 1 of them.

☐ ^ + **1749 SCRAMBLE** Original that old classic game from the arcades.

☐ ^ + **1977 POM POM GUNNER** Shoot down [illegible] game.

☐ ! - **2018 JETMAN** Spectrum classic on the Amiga with all the original sounds.

☐ ^ + **2022 SEA LANCE** The first Silent Service type sub war game on PD.

☐ ^ + **2054 ATIC ATAC** A rendition of the game from the original Spectrum.

☐ ^ + **2164 DUNGEON OF NADROJ** The is the best D&D adventure type game.

☐ ^ + **2220 STRATEGIC GAMES** [illegible]

☐ ^ + **2231 MIND GAMES** 21 of the best games to challenge your mind.

☐ ^ + **2272 BLACK JACK LAB** Play all the [illegible]

☐ ^ + **2278 CARD SHARP** Very well [illegible] selection of solitaire games.

☐ ^ + **2280 DIPLOMACY 2MB** Classic strategy game [illegible]

☐ ^ + **2411 TOTAL WAR** Strategy world [illegible] type game. 1 or more players.

☐ ^ + **2432 GOLDEN OLDIES** Galaga, Galaxian, Space Invaders, Asteroids, Bally & Missile Command, the Classic selection.

☐ ^ => **2447 COINDROP** Fruit Machine simulator with various gamble modes.

☐ ! - **2448 CRAZY SUE** Another first rate [illegible]

☐ ^ => **2480 FRUIT MACHINE 2** As near to [illegible]

☐ ^ + **2491 LEGEND OF LOTHIAN** Excellent role game in the vein of Ultima.

☐ ^ + **2498 AMOS CRICKET** Excellent arcade cricket simulator with nice graphics.

☐ ^ + **2614 TETREN** 1 or 2 player Tetris. The 2 player game is head 2 head.

☐ ^ + **2617 GOLDEN OLDIES 2** Creek, is a 1 or 2 player Frogger. BrPones is 1 of the most addictive games we've played here. Trailblazer, on the C64 Classic, Scamble.

☐ ^ + **2620 DR MARIO** You must move coloured pills down the screen.

☐ ^ + **2621 ETERNAL ROME** Start the Roman Empire from 328BC. Build fleets, armies & attack other countries and armies.

☐ ^ + **2622 DONKEY KONG** Platform game in which you must rescue the girl.

☐ ^ + **2676 MORIA v5.4** Loads of new features, better graphics, larger, graphics, dungeons, screen updates, overview of dungeon's map, more monsters ect.

☐ ^ + **2724 NEIGHBOURS** Is the best graphics adventure game to date **(2)**

☐ ! + **2738 AIR TRAFFIC CONTROL** Try to guide upto 100 planes into the AirPort.

☐ ! + **2802 CARD-O-RAMA** See heven, Crib-Klondike, Black-jack, Spades, Sheet.

☐ ^ + **2825 ALL ROUNDER** A Cricket simulation with great graphics & play.

☐ ^ + **2854 SPACE INVAIDERS II** A revised old classic Space Invaders game.

☐ ^ + **2864 FIGHTING WARRIORS** A karate combat fighting contest game.

☐ ^ + **2932 NUMERIX** Enjoy puzzles then this is a must. You have a scrabble board & you must place tetris blocks to get points.

☐ ^ + **2987 BOMB JACKY** A conversion of the original Bomb Jack, it's as the best.

☐ ^ ^ **2988 BALDERS GROVE** Its here Boulder dash with a selection of levels that work fully on Workbench 2 or higher.

☐ ^ + **3039 ASTEROIDS II v0.85** The best version of Asteroids I have ever seen, If you like Asteroids then this is for you.

☐ ^ ^ **3040 TETRIS (AGA)** If you like tetris, you need this disk. AGA graphics.

☐ ^ + **3075 18 HOLE GOLF** Fully selectable speed and power functions com-bined with surpub graphics and sound. **(2)**

☐ ^ + **3162 SON OF BLAGGER** Classic C64 platform conversion Can you remember it.

☐ ^ + **3214 UNIV CONQ** A strategy game, where 2 human players battle for control of the universe. allow the player to concentrate on the games strategy. digitized pictures

☐ ^ + **3234 SYSTEM DEFENDER** If Defender is the game and this is the game for you, in true defender style it retains all features.

☐^ + **3235 ALIEN BASH** Is set inside a prison for the galaxys mentally unstable, you have been imprisoned there along with a bunch of your mates. Rescue your friends.

☐ ^ + **3252 BONDMINE 12** Well produced in the vain of the classic Boulderdash games.

☐ ^ + **3253 OPERATION METEOR** Set in a stunning 3d adventure where you can move around

☐ ^ + **3265 WIBBLE WORLD GIGGY** Wibble World of Giggy Mania hits town. Yes you can enjoy the thrills of controlling an egg shaped character for free. Solve puzzles, avoid monsters.

☐ ^ + **3283 NECESSARY ROUGHNESS** As headcoach you will have to call the plays that you think will be most effective to the game. You will then be able to see the action, followed by a brief summary of what you have just seen. **(2)**

☐ ^ + **3286 AIR HOCKEY** A game based on air hockey from the amusement arcades.

☐ ^ ^ **3287 ROAD TO HELL** Is an overhead view driving game like HotRod and super sprint. Theres a helping extra which can be bought from the shop like enhancedtypes, Better Engines, Rockets, Smoke screens ect (2Mb)

☐ ^ + **3310 STARBASE 13** Is a graphical adventure, simular in style to monkey island and Operation Stealth. A brilliant game **(2)**

☐ ^ + **3370 DIGITAL TETRIS** Is a One or two player Tetris game with neat graphics.

☐ ^ + **3371 SUPER PRIX** This is the closest variant game of Super Sprint on the Amiga.

☐ ^ + **3383 POPEYE** Is one of my old favs from the C64 computer. Very playable.

☐ ^ + **3401 JETTY QUEST** This game is a cross between QBert and Blockit with makes it an excellently addictive puzzle game.

☐ ^ + **3411 KINGDOMS AT WAR** This is a 1 to 4 player Risk type game with neat and colourful graphics and presentation.

☐ ^ + **3413 DARKSTAFF** Is another classic game this one from the spectrum world.

☐ ^ + **3414 CONQUEST & DOMINATION** An excellent strategy war game in which you can battle with troops, Tanks, Guns, Planes, Bombers, Battle ships. Replace ammo, trains, tankers. Build buildings ect.

☐^+K **3428 CLASSIC TERIS GAMES** For all you out there with a fetish for Tetris games. heres a little selection to keep you happy.

☐ ^ + **3434 MR MEN OLYMPICS** Heres a fast action joystick waggling game for all true Olympians or just crazzed Mr Men. **(2)**

☐ ^ ^ **3436 (AGA) MOTOROLA INVAIDERS** Its just another excellent AGA very large graphics space invaider type game. **(2)**

☐ ^ + **3465 ROBOULDIX** Is a action puzzle game with 32 colour graphics, over 500 different objects, and is a variant on the most excellent arcade classic BoulderDash.

☐ ^ ^ **3454 (AGA) KLODIKE (3)** Fancy a game of Klodike with AGA graphics.

☐ ^ ^ **3619 GNU CHESS 4.0** It contains a nice graphical user interface menus, use mouse to move pieces ect.) The advantages of this program over that others are GNU Chess is a much stronger chess playing program.

☐ ^ + **3620 ORC ATTACK** Is a simple jet colourful and well designed Orc killing game.

☐ ^ + **3715 GORE** Its here programmed for the Amiga based on the C64 Original version. Shoot down the alien invaiders.

☐ ^ + **ASS121 BRAINBOW** A board game, which will tax your brains for hours. Rather like a version of the pile-up Scrabble.

☐ ^ + **ASS123 ARTILLERUS II** Blow up your opponent with this one or two player game.

☐ ^ + **ASS127 SHANGHAI 93'** A brand new version of the old game called Dragon Tiles.

☐ ^ + **ASS138 SCORCHED TANKS** This is a enhanced version of Artillerus II with over 25 different weapons and upto 4 players.

☐ ^ + **ASS141 BLACKDAWN** Travel round a [illegible] kill the monsters with a section of weapons. Its a excellent dungeon master clone set in the future.

☐ ^ + **ASS143 INTENSE** Is a Gauntlet stroke commando game in which you must walk up the screen killing the monsters, evil guys.

☐ ^ + **ASS151 KIRLLIAN INCIDENT** Is a space simulation game a bit like Elite or Epic. You must defend research outposts from the oncoming krillians. Good sound effects and 3D graphics. **ZYRAD** Simply collect all the crystals in each level in this puzzler. Good graphics, difficult gameplay.

☐ ^ + **ASS152 DICTATOR 2** Is a strategy game that consists of a map of Great Britain divided into seven regions and then counties. The aim is to take over the control counties until you control the majority of the population.

☐ ^ + **ASS153 EXIT 13** A puzzle game in which you must rearrange different coloured tiles. When you place identical tiles side by side they will vanish. Good music and effects.

☐ ^ + **ASS155 MEGABLOCK** This is a Tetris clone with a lot of skill levels, added features like the odd cherry bomb floating down to take out any unwanted or badly positioned blocks, 1-2 player. **DIGGER** An arcade puzzle game which tries to imitate the classic arcade game of ten years ago "Dig Dug". You must dig tunnels, kill aliens with a bicycle pump and progress to the next level.

☐ ^ + **ASS157 STRIKE & SPARES** has excellent graphics and control over the bowling ball, curves, movement, sense and power.

☐ ^ + **ASS158 VCHESS II** Stunning new chess game. **SCRABBLE**, is a conversion of the board classic. Play vs upto 3 friends of computers.

☐ ^ + **ASS159 DRIVING MANIACS** This is the best racing game I have ever seen on PD with solid 3d graphics including Scenery, Track and car details expect to see every magazine review this game. Weapons are optional and theres a knockout competition, play against a computer driver or a friend.

STAR TREK SELECTION

☐ ^ + **1060 STAR TREK: TNG** This is a strategy based Star Trek in which you control the Enterprise.

☐ ^ + **1081 ULTIMATE STAR TREK** By Tobias Richter. This is probley the most famous of the games here with great graphics and sound.

☐ ^ + **2222 STAR TREK QUIZ** A quiz with more questions and answers, than not even the best Trekie could think of answering. **(2)**

☐ ! - **2501 STARTREK** By Jimbo Barber. This game is based on Tobias version but has a different story for you to play. **(2) 2dd**

☐ ^ + **2503 STARTREK** By Eric Gustafson. This game is based on Tobias version but has better graphics and improved sound effects. **(3) 2dd**

MEGA DEMO SELECTION

1	☐ ^ ^	3742	AGA Perspex Hypnosis (2)
2	☐ ^ ^	3736	(AGA) Empty Head Bledhead
3	☐ ^ ^	3603	(AGA) World of Manga (4)
4	☐ ^ ^	3607	(AGA) Ferrari Pictures
5	☐ ^ ^	3710	(AGA) Mini AGA show (2)
6	☐ ^ ^	3718	(AGA) Boman Shoot em up
7	☐ ^ ^	3733	(AGA) Planet Drove MindWarp
8	☐ ^ +	3315	Visual Intensity Issue 2 (2)
9	☐ ^ +	3325	Rockly (Artsat) (2)
10	☐ ^ +	3527	Upvalo (Damage)
11	☐ ^ +	3528	Prmsak Flying Cows
12	☐ ^ +	3529	Phaw (Scoopex)
13	☐ ^ +	3626	Holo Deck Anim (2)
14	☐ ^ +	3610	Illusion (Fairlight)
15	☐ ^ +	3621	Mean Machine (4)
16	☐ ^ ^	3542	(AGA) Point of Sale
17	☐ ^ ^	3625	(AGA) Chromagic

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- = Workbench 2.x+ Only
- ^ Works with Workbench 3.x
- ^^ Workbench 3.x+ Only
- > Not A600 Machines
- ! Not Workbench 3.x (k) Requires KICK
- (?) Requires (?) Amount of disks

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- ☐ U58 **ANTI FLICKER** Stop Screen flicker
- ☐ U59 **WINDOWS BENCH** (2 disks) Excellent for W.B. 1.3
- ☐ U60 **MESSY SID II** Dir-tool Amiga to PC
- ☐ U75 **DIRWORK**
- ☐ U80 **CLI HELP + OTHERS** Insight into the CLI
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- ☐ U183 **HACK PACK** (2 Disks) 72 Utils for code busters
- ☐ U190 **SID V2.0** Dir tool, excellent
- ☐ U195 **LITTLEBENCH** Alternative WB
- ☐ U230 **INSTALL** Install your disks without the CLI
- ☐ U242 **MSH V1.3** Handles MSDOS files
- ☐ U260 **SUPERLOCK V1.01** Security prog. lock off Amiga
- ☐ U267 **ARP V1.3** Alternative commands
- ☐ U271 **NBS SPEEDBENCH** Fast loading W/Bench
- ☐ U282 **SUPER C DIR TOOLS** Fast use of C
- ☐ U297 **COMPUTEREYES ICONS**
- ☐ U308 **AMOS COMPILER UPDATE 1.34**
- ☐ U316 **MULTIDOS** PC>Amiga
- ☐ U320 **CLI-UTILS** Very useful
- ☐ U321 **AMOS 1.34 UPDATE**
- ☐ U323 **WINDOWS BENCH V2.0** (2 disks)
- ☐ U330 **FLASHDISK RELEASE 3** Optimiser
- ☐ U332 **ASSASSINS HANDY TOOLS V3.0**
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- ☐ U450 **SUPERDARK v1.2** screen blanker
- ☐ U451 **APRF v1.4** print utility
- ☐ U452 **GUARC v1.1** for CLI based archivers
- ☐ U453 **LANDBUILDER v3.2** Fractal land gen
- ☐ U454 **PC>AMIGA** file utility
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- ☐ GU339 **ART 14** Animals
- ☐ GU340 **ART 15** Cats
- ☐ GU341 **ART 16** Silhouettes
- ☐ GU342 **ART 17** (2 Disks) Schools
- ☐ GU343 **ART 18** Babies
- ☐ GU344 **ART 19** (2 Disks) Sport
- ☐ GU345 **ART 20** Olympic
- ☐ GU346 **ART 21** (2 Disks) Medics
- ☐ GU347 **ART 22** Sea Life
- ☐ GU348 **ART 23** Decorative Motifs
- ☐ GU349 **ART 24** Whacky (funny)
- ☐ GU350 **ART 25** Holidays
- ☐ GU351 **ART 26** (2 Disks) Old banners
- ☐ GU352 **ART 27** Art Nouveau flowers
- ☐ GU353 **ART 28** Butterflies
- ☐ GU354 **ART 29** (2 Disks) Food & kitchen
- ☐ GU355 **ART 30** Colouring book (DPaint)
- ☐ GU356 **ART 31** Borders (DTP) (2 Disks)
- ☐ GU357 **ART 32** (2 Disks) MAC clipart
- ☐ GU358 **ART 33** Horseback (rustic)
- ☐ GU359 **ART 34** (2 Disks) Teddy Bears
- ☐ GU360 **ART 35** (2 Disks) Vanity Fair (fashion)
- ☐ GU361 **ART 36** Halloween (weird)
- ☐ GU364 **ART 37** Showtime (dancing etc)
- ☐ GU365 **ART 38** Vegetarian
- ☐ GU366 **ART 39** Floral (detailed)
- ☐ GU367 **ART 40** Myths & Zodiac
- ☐ GU432 **ART 51** Botanical art
- ☐ GU433 **ART 52** Family scenes (3 Disks)
- ☐ GU434 **ART 53** Golf Humour (2 Disks)
- ☐ GU435 **ART 54** Space & transport
- ☐ GU436 **ART 55** Scifi scene 2 – Real sea
- ☐ GU437 **ART 56** Sports 2
- ☐ GU438 **ART 57** Navy
- ☐ GU439 **ART 58** Travel (3 Disks)
- ☐ GU440 **ART 59** Alphabet (2 Disks)
- ☐ GU441 **ART 60** Accents & Flashes – stars etc
- ☐ GU442 **ART 61** Fish & aquatic pics
- ☐ GU443 **ART 62** Softscene 3
- ☐ GU444 **ART 63** Restaurant (3 disks)
- ☐ GU445 **ART 64** Mammals
- ☐ GU446 **ART 65** Anim & bird
- ☐ GU447 **ART 66** Moonbam animals
- ☐ GU448 **ART 67** Bunchfield kids
- ☐ GU449 **ART 68** Beast & Myth (3 Disks)
- ☐ GU450 **ART 69** Transport (3 Disks)
- ☐ GU451 **ART 70** Trucks & trains
- ☐ GU452 **ART 71** Astrology (2 Disks)
- ☐ GU453 **ART 72** Aircraft (3 Disks)
- ☐ GU454 **ART 73** Birds – songbirds etc
- ☐ GU455 **ART 74** Dogs
- ☐ GU456 **ART 75** Houses, castles & buildings
- ☐ GU457 **ART 76** Sports – Mac
- ☐ GU458 **ART 77** Horticulture (5 Disks)
- ☐ GU459 **ART 78** Military (10 Disks)

Coloured clipart also in stock – send for details

COPIERS

- ☐ CP234 **FLASH COPY** Multi-tasking
- ☐ CP267 **FREE COPY v1.8** Removes protection
- ☐ CP313 **NIB v2.0** Removes protection (1.3 only)
- ☐ CP340 **ASI CRUNCH 'N' COPY 2** Collection
- ☐ CP341 **COOL COPIER v2.0** Fast & safe
- ☐ CP348 **ASI DISK COPIERS** Collection
- ☐ CP349 **LOCK PIC 2** Removes protection
- ☐ CP350 **D COPY v3.1**
- ☐ CP351 **MAVERICK COPIER** Rem. protection
- ☐ CP352 **SAFE II** Powerful copier
- ☐ CP353 **MEGA MONITOR** Action replay type
- ☐ CP354 **THE DISK UTIL** WB2+
- ☐ CP355 **SUPER FORMATTER v1.0#**
- ☐ CP356 **SUPERDUPER v2.02**
- ☐ CP357 **BAD FORMAT** Run Bad disks
- ☐ CP358 **COPIERS UNLIMITED**
- ☐ CP360 **DISKMATE** V Good (WB2.04+)

PROGRAMMING

- ☐ PR 47 **C LANGUAGE MANUAL** (3 Disks)
- ☐ PR 49 **C LANGUAGE COMPILER**
- ☐ PR 72 **PASCAL LANG PROG**
- ☐ PR 94 **POWER LOGO v1.0** Lisp & Logo
- ☐ PR110 **POC** (3 Disks) Programmers aid
- ☐ PR118 **BC-FORTRAN**
- ☐ PR166 **AMIGA CODERS CLUB** (8 Disks)
- ☐ PR225 **CURSOR COMPILER** Basic language
- ☐ PR239 **DME V1.45** Programmers Text Editor
- ☐ PR243 **DICE v2.06.8** (2 Disks) C Environment
- ☐ PR244 **PCQ v1.2a** (3 Disks) Pascal compiler
- ☐ PR326 **SOZOBAN C DISK** AZ Text link compiler
- ☐ PR355 **ASM ONE** Assembly package
- ☐ PR357 **EZASM** Assemblers
- ☐ PR358 **C MANUAL** (12 Disks) The best yet
- ☐ PR359 **NORTH 'C'** v1.3 (2 Disks)
- ☐ PR361 **ATTIC & BLIT** Useful for 'C' progs.
- ☐ PR362 **AMIGA E** v2.1 Better than C
- ☐ PR363 **AZAPP v2.04** binary editor
- ☐ PR364 **INSTALLER** for software developers
- ☐ PR365 **MPE v1.6** M2Amiga companion
- ☐ PR366 **MODULA-2** language
- ☐ PR367 **GNU++C COMPILER** (3 Disks)
- ☐ PR368 **PCQ SHELL** Pascal Compiler
- ☐ PR369 **'C' LANGUAGE MANUAL v2.0** (4 di
- ☐ PR370 **C++ 2LATEX** Make Latex files from C+

MUSIC UTILITIES

- ☐ MU2 **MODULES ONE**
- ☐ MU3 **MODULES TWO**
- ☐ MU4 **MODULES THREE**
- ☐ MU5 **MODULES FOUR**
- ☐ MU6 **MODULES FIVE**
- ☐ MU7 **MODULES SIX**
- ☐ MU10 - MU47 **ST SAMPLES & INSTRUMENTS** (38 Disks) or buy singly
- ☐ MU48 **8 CHANNEL SOUND TRACKER**
- ☐ MU49 **STAR TREKKER 1.3**
- ☐ MU51 **MODULE/SONGS 2**
- ☐ MU77 **MED 3.2** Music editor
- ☐ MU193 **OCTAMED v1.0 FF579** Music editor
- ☐ MU256 **MULTI-PLAYER V1.11A** Music
- ☐ MU317 **DENNIS SAMPLES DISK 2** Madonna etc
- ☐ MU318 **DENNIS SAMPLES DISK 3** Baby cough etc
- ☐ MU319 **DENNIS SAMPLES DISK 4** Telephone etc
- ☐ MU321 **DENNIS SAMPLES DISK 6** Star Trek etc
- ☐ MU322 **DENNIS SAMPLES DISK 7** Heavy monster etc
- ☐ MU323 **ASSASSINS AUDIO MAGIC VOL 1.1** Lots
- ☐ MU324 **ASSASSINS AUDIO MAGIC VOL 2** Trackers
- ☐ MU325 **SOUND APPLICATIONS A & B** (2 Disks)
- ☐ MU326 **MEGA MON v 3.20**
- ☐ MU327 **SAMPLE MAKER**
- ☐ MU328 **CASIO CZ-101**
- ☐ MU329 **DX 100**
- ☐ MU330 **PENDLE EUROPA**
- ☐ MU331 **AUDIO ANIMATION STUDIO**
- ☐ MU332 **INSTRUMENTS & SAMPLES**
- ☐ MU333 **PROTRACKER v2.2**
- ☐ MU334 **NOISETRACKER v2.0**
- ☐ MU335 **SOUND TRACKER v4.0**
- ☐ MU336 **PROTRACKER v2.3** Latest
- ☐ MU337 **ASI AUDIO MAGIC Vol 3** Trackers
- ☐ MU338 **ASI AUDIO MAGIC Vol 4** Inc Pro Tra
- ☐ MU339 **OCTAMED V2.0** 8 channel MED seque
- ☐ MU340 **CDTV PLAYER** Simplifies audio CD's
- ☐ MU341 **SUPERSOUND v2.1** Sound sampling
- ☐ MU342 **SOUND** Sample player
- ☐ MU343 **DESKTOP GUIDE TO ELECTRONIC MU** (3 disks)
- ☐ MU344 **TAB MASTER** Music to guitar transcr
- ☐ MU345 **POWERCUTS** Good sound effect sam
- ☐ MU346 **BEATS** (5 disks) Drum Samples
- ☐ MU347 **VOCALS** (5 disks) Super Samples
- ☐ MU348 **DRUM KIT SAMPLES** (3 disks) High qu
- ☐ MU349 **KORG SAMPLES** Keyboard Sounds (3
- ☐ MU350 **MUSIC MODULES** (5 disks) Large m
- ☐ MU351 **PURE SAMPLES** (3 disks)
- ☐ MU352 **METAL MODULES** (5 disks) Heavy Me
- ☐ MU353 **CHIPMANS SAMPLE DISK** 1-70 Samples
- ☐ MU354 **SAMPLE FACTORY** Sound effects
- ☐ MU355 **DELITRACKER** Sound player
- ☐ MU356 **POWER PLAYER v3.9** module player
- ☐ MU357 **IFF BREAKBEATS 1**
- ☐ MU358 **TECHNO MODULES 1-5** (5 disks)
- ☐ MU359 **OCTAROCK 3D** Rock + Grafix
- ☐ MU360 **OCTASTUFF** For Octamed v3 &4
- ☐ MU361 **GUITAR TUNER**

VIDEO WORK

- ☐ V 99 **CATALOGUE WORKSHOP 1**
- ☐ V100 **CATALOGUE WORKSHOP 2**
- ☐ V179 **VIDEO APPLICATION UTILS**
- ☐ V180 **VIDI FONTS 1**
- ☐ V220 **VIDEO GRAPHICS** (4 Disks)
- ☐ V236 **CHEMNIMATE** Reaction anims
- ☐ V345 **VIDEO WIPES**
- ☐ V401 **INSCRIPT** Video titler
- ☐ V402 **TELE TITLER 2** Hi-res – use with V408
- ☐ V403 **VIDEO EDITORS KIT**
- ☐ V404 **CAPTIONATOR** Superb video titler
- ☐ V405 **HARLEQUIN VIDEO ART 1**
- ☐ V406 **HARLEQUIN VIDEO FONTS 1**
- ☐ V407 **HARLEQUIN VIDEO FONTS 2**
- ☐ V408 **TELESCROLL 1** Video titler
- ☐ V409 **TELETITLER 3** Lo-res – use with V40
- ☐ V410 **DESKTOP VIDEO** Adds scrolling titles

A1200

- ☐ WS1-5 **WEIRD SCIENCE** S/Show & music (5 disks)
- ☐ SH1-8 **SUPER HAM PICS** (8 disks) Brill
- ☐ AU12 **JPEG AGA IMAGES** (9 disks) Superb
- ☐ AU13 **BAD BOYZ AGA SLIDES** (10 disks) Fab!
- ☐ AU14 **SLEEPLESS NIGHTS** – 3 utilities
- ☐ AU15 **A1200 UTILITIES** – Gif & PCX datatypes etc
- ☐ AU16 **A1200 WB HACKS**
- ☐ AU17 **ANDY'S WB3 UTILS** Brill! Fakemem, AGAtest etc
- ☐ AU18 **24 BIT UTILS** – 5 conversions progs
- ☐ AU19 **WINBLEND** Fractal generator
- ☐ AU20 **JPEG UTILS** Read 24 convertor pics
- ☐ AU21 **HD PREP** progs hard drive
- ☐ AU22 **HOMEM** reads MMU
- ☐ AU23 **RD PREP** progs rigid disk
- ☐ AU24 **HD INSTALLER**
- ☐ AU25 **MAGIC WORKBENCH** Superb icons (HD only)
- ☐ AU26 **AGA UTILITIES 2** 256 colour icon ed etc
- ☐ AU27 **AGA UTILITIES 3** Kill aga etc
- ☐ AU28 **AGA UTILITIES 4** Itsbank, checkaga etc
- ☐ AU29 **AGA UTILITIES 5** Degrader, AMIGAtodisable etc
- ☐ AU30 **AGA UTILITIES 6** A4011 patch, Hamll newpop
- ☐ AU31 **A1200 VIRUS KILLERS**
- ☐ AU32 **NEW WB3 SUPER KILLERS**
- ☐ AU33 **A1200 INTROS**
- ☐ AU34 **HOY AGA DEMO 1**
- ☐ AU35 **HOY AGA DEMO 2**
- ☐ AU36 **NIGHTBREED** (2 disks) AGA slides
- ☐ AU37 **FERRARI AGA SLIDES**
- ☐ AU38 **CYNOSTIC SLIDES**
- ☐ AU39 **KEITH RHODES PICS** Fantasy
- ☐ AU40 **RETINA BURN AGA** Brill demo
- ☐ AU41 **PANTARHEI AGA** Great new demo
- ☐ AU43 **MSM v1.0** Martins System monitor for programmers
- ☐ AU44 **MAIN ACTOR** Modular anim. package
- ☐ AU45 **AGA BLANKER** – 14 different ones
- ☐ AU46 **STARTREK PICS 1-5** (5 disks)
- ☐ AU47 **MAGIC FACTORY SLIDES 1** – Brill Sl
- ☐ AU48 **MAGIC FACTORY SLIDES 2** – More Sl
- ☐ AU49 **PYGMY PROJECTS EXTENSION DEMO** Rave
- ☐ AU50 **POINT OF SALE DEMO** – Superb
- ☐ AU51 **BLACKBOARD** – Image Processor
- ☐ AU53 **WB3 BACKGROUNDS**
- ☐ AU54 **KILL AGA v2** Turn off AGA chipset
- ☐ AU55 **KLONDIKE AGA** (3 disks)
- ☐ AU56 **MOTOROLA INVADERS 2** (2 disks)
- ☐ AU57 **UCHESS** (4Mb RAM req'd)
- ☐ AU58 **AGA TETRIS**
- ☐ AU59 **STEVE PACKER** (10 disks) Animations
- ☐ AU60 **NIGHTBREED** AGA Frac Flight
- ☐ AU61 **MEGABALL 3** AGA

Most titles in other categories run on A1200 – Some may need EM400

GAMES

☐ **MEGABALL** Breakout – very addictive
☐ **STAR TREK I** (2 disks) Space (Not A1200)
☐ **CASTLE OF DOOM** Adventure
☐ **HOLY GRAIL** Text only adventure
☐ **GOLDEN FLEECE** Text only adventure
☐ **CARD GAMES** Harp, Plait, Queens etc
☐ **SUPER TWINTRIS** Shape dropping excellent
☐ **GAMES DISK 7** Backgammon etc
☐ **WIZZYS QUEST** * Arcade puzzle, good graphix
☐ **RETURN TO EARTH** Elite type
☐ **LLAMATRON** 512K & 1Mb Shoot 'em up
☐ **BUG BASH** Shoot 'em up
☐ **ESCAPE FROM JOVI** Space Arcade
☐ **DOWNHILL CHALLENGE** Tactics, ski to win
☐ **BATTLEFORCE** Fantasy roll playing game
☐ **DRAGON CAVE** Dungeon Master type
☐ **MECHFIGHT RPG** Roll playing game
☐ **GREYSLAYER** Arcade adventure
☐ **SCUM EATERS** Shoot 'em up
☐ **STAR TREK 2** (3 disks)Not 1200
☐ **POM POM GUNNER** * Arcade shoot 'em up
☐ **FRUIT MACHINE** * Excellent
☐ **MECHFORCE** (2 Disks) RPG
☐ **SEA LANCE** * Submarine Simulation
☐ **KLONDIKE** Cards
☐ **AIR ACE II** World War 2 S.E.U.
☐ **MERV THE MERCILESS** Platform
☐ **TREASURE HUNT** (6-8 yrs)
☐ **CHEAT LIST GAMES V1.0**
☐ **WHACKO JNR IN WONDERLAND** Good for kids
☐ **PARACHUTE JOUST** Good graphics
☐ **CRYSTAL CAVERNS** Arcade adv
☐ **TREK-73** Space text adv
☐ **ZEUS – THE GAME** Puzz tiles
☐ **DUNGEON DELVER** (2 Disks) Mazes
☐ **PICK UP A PUZZLE** * (2 Disks) Jigsaw
☐ **CHAINSAW DEATH** * Futuristic maze type
☐ **CAN YOU PICTURE IT** * (2 Disks) Jigsaw
☐ **CROSSFIRE** * Excellent for kids
☐ **BALLOONACY** * Bomb the skyscrapers
☐ **DEMOLISION MISSION** * Bomber
☐ **BLACKJACK** Card game
☐ **PETER'S QUEST** Arcade –Rescue the Maiden
☐ **AMIGAMAN GAMES** 10 games
☐ **SHAPES** Very playable for kids
☐ **GO LOOLY** S.E.U. Good graphix
☐ **STAR TREK THE NEXT GENERATION** (Not A1200)
☐ **BLOCKIT** Good graphix – Ace
☐ **HACK** Text adv

☐ G95 **DRAGON TILES** Great tiles game
☐ G96 **BOARD GAMES**
☐ G97 **ATIK ATAK** C64 game
☐ G99 **BART SIMPSON** Scrolling S.E.U.
☐ G124 **PIPE RIDER** Space Invader S.E.U.
☐ G125 **RAMIFY** Pairing
☐ G126 **RUSH HOUR** Frogger – Get across the road
☐ G127 **TOMTESPELET** Speed ball type
☐ G129 **WET BEAVER GAMES** Pong
☐ G130 **WIZARD WORLD** S.E.U. Platform
☐ G131 **WORLD OF FOOLS** Shoot em up
☐ G133 **CARD SHARP** 5 card games
☐ G134 **TOTAL WAR** Risk type
☐ G135 **AIRMANIA** Platform
☐ G136 **SKYFLYER** WWII S.E.U.
☐ G137 **PUGGLES** Q'bert brill
☐ G138 **SQUATS REVENGE** Wall clone
☐ G139 **PAIR IT** Shapes
☐ G140 **GAMES COMPILATION** 16 games
☐ G141 **ATLANTIS** I Strategy
☐ G142 **NAPOLEONIC WAR SIMULATION** Strategy
☐ G143 **MISSION RAID PART II** S.E.U.
☐ G144 **SNAKES & LADDERS** Good
☐ G145 **GAMES GALORE VOL 7** For the young
☐ G146 **AIR WARRIOR** Flight simulation
☐ G151 **E-TYPE** Arcade S.E.U.
☐ G152 **DUNGEONS OF NADROJ** Hacktype
☐ G153 **QUICK & SILVER** Platform. Excellent
☐ G154 **MASTER OF THE TOWN** Shoot the sign posts
☐ G156 **ETHOS** Text adv + pics
☐ G157 **BATTLE CARS** 3D cars S.E.U.
☐ G158 **CHALLENGER** Quiz - 5 player
☐ G162 **CATACOMB** Graphic adv – very well done
☐ G163 **KINGDOM AT WAR** War games
☐ G164 **SMASH TV RIPOFF** S.E.U. Futuristic
☐ G185 **DOODY** Mario type platform
☐ G186 **PICK OUT** Pair it. V. good
☐ G187 **NO-SHOOT EM UP** Space
☐ G189 **STRIKE BALL** Baseball. Brill!
☐ G190 **PARAGON** Marble Slide
☐ G192 **CRAZY SUE** Platform. 1st rate
☐ G193 **HENRY IN PANIC** Manic Miner type
☐ G194 **CONCENTRATION V3.3** Pair it type
☐ G195 **DESTINATION MOONBASE** Thrust
☐ G196 **ESCAPE FROM JOVI III** Caves
☐ G197 **NO MANS LAND** War S.E.U.
☐ G198 **DOMINOES** V. Good
☐ G199 **RAPHAELS REVENGE** Turtle S.E.U.
☐ G200 **MIDNIGHT THIEF GAME** Adv

☐ G201 **LAMER GAME** [illegible] shoot the beasties
☐ G204 **GRUB GRABBER II** Help Elvin! Avoid gremlin
☐ G205 **SWORD OF WORLOCK** 3 disk Adv
☐ G206 **A NIGHT AT THE TOP** Terrorist adv
☐ G208 **QUADRIX** Puzz. Excellent
☐ G209 **YUM YUM** * Pacman
☐ G210 **REVENGE MUTANT CAMELS** S.E.U.
☐ G211 **BATTLEMENTS** Hunchback platform
☐ G212 **LEMMINGOIDS** Blast them!
☐ G218 **KARATE WORM** Platform-cute
☐ G219 **SNAKE IN THE GRASS** Platform – neat
☐ G221 **WIZARDS DOMAIN** Graphic adv
☐ G222 **PIXIE KINGDOM** (2 disks)
☐ G223 **ARCADIA** Breakout – very popular
☐ G224 **PORK A PORK** Stop the foxes
☐ G225 **MR BRICK** - Mario type
☐ G226 **RAID III** S.E.U. – wicked
☐ G227 **SERENE III**
☐ G228 **WOTSITSNAME** Quiz
☐ G229 **TETREN** – tetris
☐ G230 **HUMPTY & THE ALIEN INVADERS**
☐ G232 **LOTHIAN** Graphic adv
☐ G233 **OMEGA RACE** S.E.U. Great
☐ G234 **MENTAL IMAGES DISK 2** 3 games
☐ G262 **MR & MRS** Young platform – very good
☐ G263 **TANX** Great 98%
☐ G264 **DEFENDA** Arcade 95% Brilliant conversion
☐ G265 **GRAND PRIX SIMULATOR** Mega
☐ G266 **NUMBER FUMBLER** Number puzzle
☐ G267 **LEMMINGOIDS** Blast away
☐ G268 **GROWTH**
☐ G270 **PROJECT 1**
☐ G271 **LAZER ZONE**
☐ G272 **LEMMINGS PACK**
☐ G273 **THE MAZE GAME**
☐ G275 **APIDYA**
☐ G276 **SHOOT OUT**
☐ G277 **SUPER SKODA CHALLENGE**
☐ G278 **COMPUTER CONFLICT 2**
☐ G279 **ANTEP & SLOT CARS GAME** RPG
☐ G280 **TRICKY & THE TURN GAME**
☐ G283 **CARD GAMES 2**
☐ G285 **MIND GAMES 21**
☐ G286 **HYPER TEXT CHEATS**
☐ G287 **TECHNOBAN** Puzzle game
☐ G289 **THE BEAST** Mission to kill
☐ G290 **NADILOT RUN** Cat & dog chase
☐ G291 **OUCH** Clobber those moles
☐ G292 **ABSOLUTE ADV VOL ONE**

☐ G293 **CHAOS STRIKES BACK** Maps etc
☐ G294 **GAME TAMER v4.50** Latest
☐ G302 **AMOS CRICKET** Good cricket game
☐ G303 **ARAZNAX** 40 levels
☐ G304 **HELL ZONE** Elite
☐ G305 **FATAL MISSION** Good shoot 'em up
☐ G306 **GHOSTSHIP**
☐ G307 **CROSSMAZE/CRYPTO KING** Words
☐ G308 **INTERLOCK (AMOS)** 25 levels
☐ G309 **TANK ATTACK & MOUTHMAN**
☐ G311 **THRALLBOUND** Viking Adv Text
☐ G312 **BOUNCE AND BLAST** Platform
☐ G313 **SOCCER CARDS** Run the club
☐ G314 **CYBERNETIX** Fast action
☐ G315 **STAR MIX 2** 3 games
☐ G316 **FLAG CATCHER** Squares puzz
☐ G317 **OMEGA** Adv Moria type
☐ G318 **TOP SECRET** Excellent graphics platform
☐ G319 **MADONNA** Jigsaw
☐ G320 **ROBOCOP GOES TO IRAQ** sea
☐ G321 **BACK TO THE FUTURE III** Funny
☐ G322 **45 CHEATS** Codes etc
☐ G323 **TOMCAT** F15 shoot 'em up
☐ G324 **SUPER QUIZ**
☐ G325 **POWER PONG** Boing
☐ G326 **MAHJONG** Tiles
☐ G327 **MESTER** Cards
☐ G328 **STARFLEET** Shoot 'em up
☐ G329 **EXCALIBER** Shoot 'em up
☐ G330 **IMPERIUM ROMANIUM** Battle
☐ G331 **SQUAMBLE** Very Spacey!!
☐ G332 **JETMAN** Good shoot em up
☐ G333 **MECHFORCE v 3.71** Latest update
☐ G334 **PROPERTY MARKET GAME** Strategy
☐ G335 **ROLL ON & LAMER** Pushing
☐ G336 **HACKLITE v 1.0** Moria & Hack
☐ G338 **DIE FILTH** (2 disks) Brill like Swiv
☐ G339 **ULTIMATE HINT KIT v1.0**
☐ G340 **THE ACE CHEATS DISK 2** Lots
☐ G341 **BATTLE OF BRITAIN** Strategy
☐ G342 **THE SECRET OF MONKEY ISLAND** (Demo)
☐ G344 **ESCAPE II** Creating games
☐ G345 **QUIZMASTER v 1.0** Test your knowledge
☐ G346 **NEBULA** Shoot-em-up fast action!
☐ G347 **ESCAPE** Into space!
☐ G348 **RUMMY** Excellent card game
☐ G349 **SPACE RESCUE** Super shoot 'em up
☐ G350 **INVADERS MARK II** Space invaders
☐ G371 **ERIC THE WARRIOR** Sim to Gauntlet

☐ G372 **KLAKTRIS** Tris type game
☐ G373 **CLI-TRIS** Latest TRIS
☐ G374 **DELUXE PACMAN**
☐ G375 **GALAGA 92** Shoot-em-up
☐ G376 **LIBERATOR GAME** Shoot-em-up
☐ G377 **ACK-ACK**
☐ G378 **CRAZY SUE 2** Latest platform
☐ G380 **LAST REFUGE** Invaders
☐ G381 **ZINGGER GAME** Karate game
☐ G385 **MORIA v5.4** Latest
☐ G386 **FRUIT MACHINE II** AMOS good
☐ G387 **OBLIVION** Defenda clone
☐ G388 **BOMB JACKY** Platform
☐ G390 **OTHELLO** Board game classic
☐ G391 **SOLITAIRE SAMPLER** Cards
☐ G392 **WILLY IN THE CASTLE** Excellent platform
☐ G393 **FRUIT SALAD** Platform. Reviewed in Format
☐ G394 **MARIO IN WONDERLAND** Brill clone – Mega!
☐ G396 **GIDDY** Great new platform game
☐ G398 **ATOMS** Weird!
☐ G399 **VECTA STORM** Brill new Tempest clone
☐ G400 **DIGITAL TETRIS**
☐ G402 **TETRIS PRO**
☐ G403 **SUPER PACMAN 92**
☐ G404 **BRIDGE**
☐ G405 **18th HOLE GOLF** (2 disks)
☐ G406 **SLIDE SQUARES** Puzzle
☐ G407 **THEY CAME FROM OUTER SPACE** Shoot em up
☐ G408 **SON OF BLAGGER** Excellent platform
☐ G409 **BRAINBOW** Addictive puzzle
☐ G410 **MYSTERY 2144 AD** Futuristic Murder adv.
☐ G411 **GUSH** Fab pipeline clone
☐ G412 **MEXICAN MASSACRE** Arcade action
☐ G413 **100 MEGA GAMES** (7 disks)
☐ G414 **BOX** Adventure game
☐ G415 **SLAMBALL** Future Management sim.
☐ G416 **MAYHEMZ** Multi player manic maze
☐ G417 **MUGSIE** Money making gangster adventure
☐ G418 **ROULETTE + PUNTO 2** Good game (not 1.3)
☐ G419 **BLITZ GAMES** Worm, buzzbar, speed etc
☐ G420 **SKID MARKS** Amazing driving game
☐ G421 **ZOMBIE, APPOCOLIPS AND DEFENDER 2** Brill!
☐ G422 **BILLY BURGLAR** Just try to escape
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PD SCENE

Delving through this month's PD skip, Tony Horgan uncovers wailing Icelanders, gastric complaints, idiotic Wayne's World samples and a disk magazine for ravers.

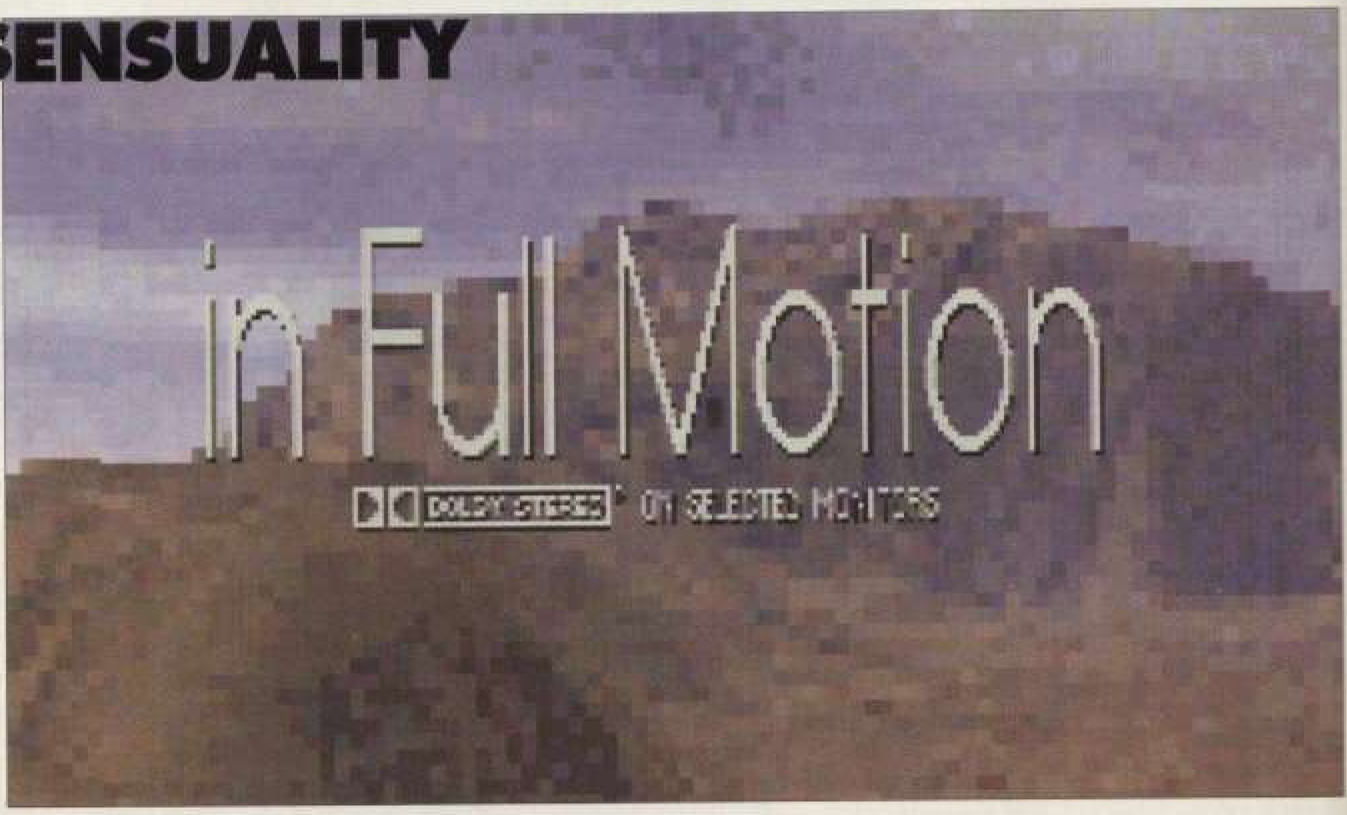
BIG TIME SENSUALITY

AGA demo

Yes, it's that strange Bjork woman singing the album mix of Big Time Sensuality. It's a more garagey mix than the single, and it's been extended for the demo with some neat looping. This isn't just a music demo though – there are plenty of good visual effects too, like the animated colour fractal landscape at the start, the AGA plasma, and some of that in-vogue bitmap rotation. My copy had an unfortunate drop-out right in the middle of the chorus, but that could just have been a one-off. That aside, the sound quality is excellent, making this quite a nice demo really.

Available from: Freestyle PD, 108 Woodside Way, Short Heath, Willenhall, West Midlands, WV12 5NH. Tel: 0922 404023. Price: £1.50 inc P+P.

82%



INTRUDER ALERT

Game

If your skin isn't crinkly enough to remember *Cybertron Mission*), the basic idea in *Intruder Alert* is that you guide a little warrior around a vast complex of rooms collecting valuable objects (don't ask me what they are – even the BBC version didn't explain this aspect of the game!) whilst fending off an army of marauding monsters. The gameplay may not be the fastest in the world but the atmosphere created by Intruder Alert is absolutely electric (just like the walls). Some great sound effects and above average graphics add up to a worthwhile PD purchase.

Available from: Anglia PD, Anglia House, 30 Victoria Street, Felixstowe, Suffolk IP11 7EW. Disk no. Arcade Pack disk 3. Tel: 0394 284 494. Phone for price.

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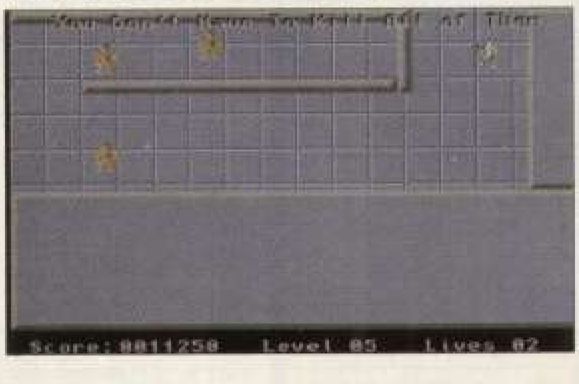

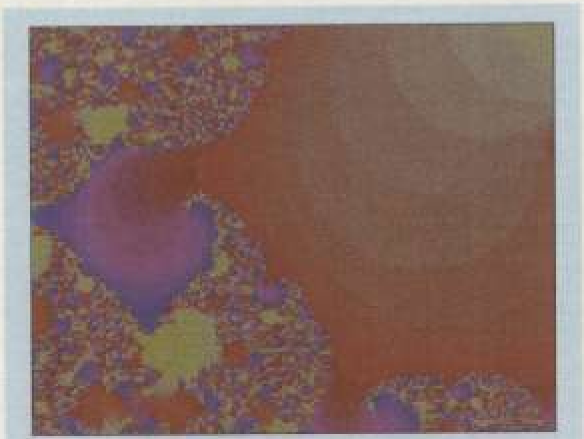

GASTRIC ULCER

Music demo

A collection of eight banging techno choons, Gastric Ulcer is just the sort of thing to seriously piss off everyone else in the CU AMIGA office. Each track comes with its own colour-cycled fractal. The tracks all seem to use mostly the same samples as each other, so one sounds pretty much like the next, but check it out if you like your techno on the hard side.

Available from: Freestyle PD, 108 Woodside Way, Short Heath, Willenhall, West Midlands, WV12 5NH. Tel: 0922 404023. Price: £1.50 including P+P.

79%

BLIZZARD

Game

If you were a fan of Andrew Braybrook's classic *Uridium*, but were disappointed with the Amiga conversion, then *Blizzard* may well be for you. Although not quite as technically stunning as *Uridium 2, Blizzard* is a no-thrills shoot 'em up based very closely on Braybrook's C64 classic. The basic idea is to fly a small spacecraft across the surface of a large starcruiser, shooting alien ships as they fly by with guns blazing. Most fly in formation, making them very easy to kill, but look out for space mines and vertical sections of the starcruiser that jut out into space – get hit by any of these obstructions and you're space dust (not to be confused with the banned sweet.)

Available from: Anglia PD, Anglia House, 30 Victoria Street, Felixstowe, Suffolk IP11 7EW. Disk no. Arcade Pack disk 4. Tel:0394 284 494. Phone for price.

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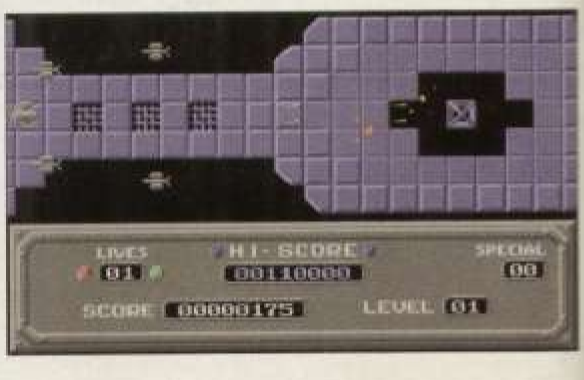
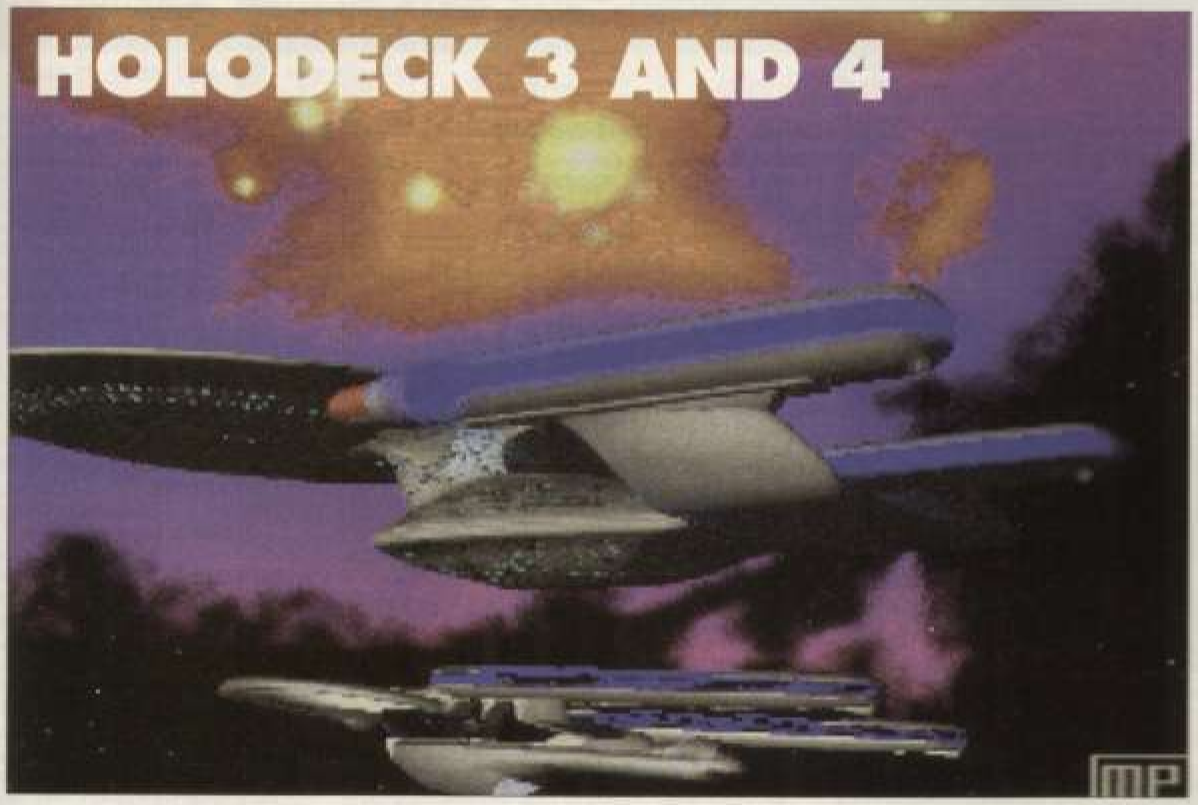


HOLODECK 3 AND 4

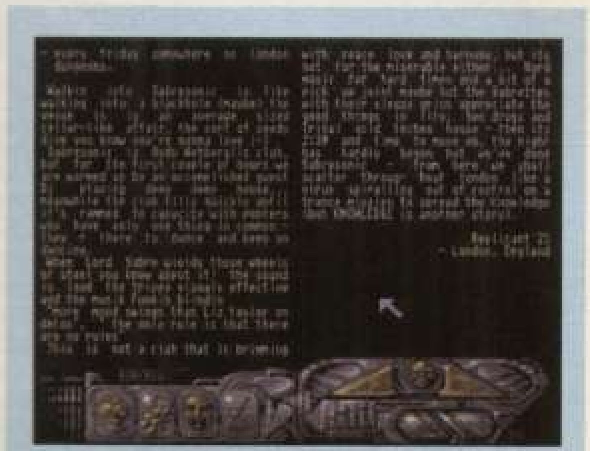


Slideshow

This is rapidly becoming a very popular series among Amiga-owning Trekkies. Like the first two, *Holodeck* editions *3* and *4* are both HAM slideshows based on the various voyages of the Starship Enterprise. A lot the colouring is garish, and there's some untidy HAM 'fringing', but if you liked either of the two previous disks, these should be right up your street. Each edition comes on two disks and is available separately.

Available from: Cynostic PD, Office 01, New Enterprise Centre, Little Heath Industrial Estate, Old Church Road, Coventry, CV6 7NB. Tel: 0203 681687. Price: £1 plus £1 P+P.

78%



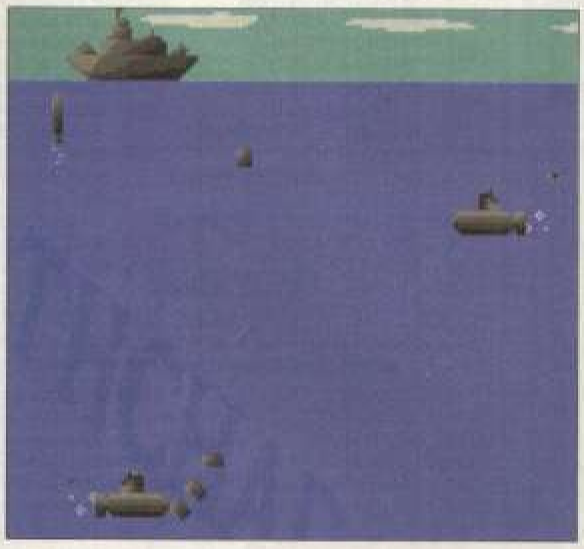
PLANET E

Disk magazine

Calling all groovers! *Planet E* is a new disk magazine devoted to ravers the World over. Featuring such names as Jam and Spoon among its contributors for issue one, it takes a refreshingly independent look at the rave scene. There's none of that 'in-crowd' attitude you get from the likes of Mixmag and DJ mag, so you get honest opinions on recent events, new vinyl and the scene in general. One of my fave rave nights, Deep Space, gets a write-up, along with plenty more clubs and one-off parties from around the world. There are also other general articles, such as how not to kill yourself using unhealthy substances. The slant in issue one is towards techno, but the editors hope to expand this in the next issue to cover the range from hardcore to house and hip hop.

Available from: Cynostic PD, Office 01, New Enterprise Centre, Little Heath Industrial Estate, Old Church Road, Coventry, CV6 7NB. Disk no. D0241. Price: £2.00 including P+P.

88%



DEPTH CHARGE

Game

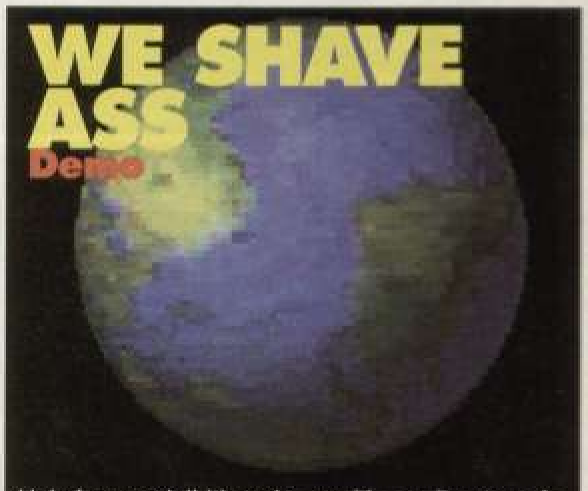
Hey, look! It's a brand new pioneering game like you've never seen before! Oh no, sorry, it's another conversion of an ancient coin-op – my mistake. You control a battleship at the top of the screen, and it's your job to destroy as many U-boats as possible. The subs release their own explosives that float up to the surface, sinking your ship on contact. That's about it really – you just move across the screen chucking bombs into the sea until you've used up all your lives. This is recommended to anyone who likes and remembers old arcade games.

Available from: 17 Bit Software, 2/8 Market Street, Wakefield, West Yorks, WF1 1DH. Tel: 0924 366982. Disk no. 2945. Price: £2.00 including P+P.

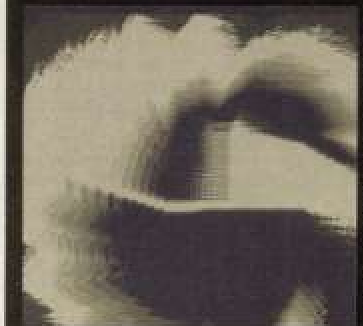
50%

WE SHAVE ASS

Demo

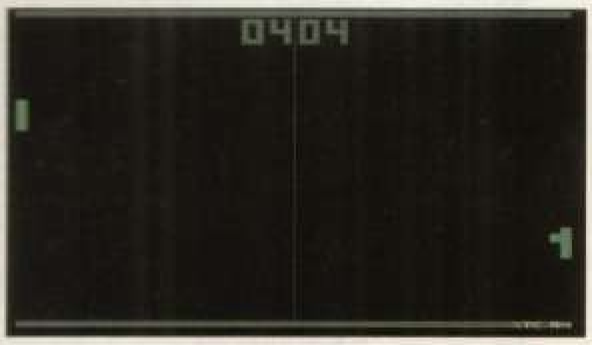


Holy fuzz-pedal! It's a demo with a guitar soundtrack! Although it's over almost before its begun, clocking in at just under two minutes long, it's got a few tasty effects to tickle your eyeballs. First up is the simulated video feedback effect – very simple, but well trippy. Then there's a blurred bitmap rotation and a few run of the mill effects, followed by a clever texture-mapped spinning globe, yet another bitmap rotation, and a chunky but smooth fractal landscape flight. Then all of a sudden, it's the end. Very short, but good while it lasts.



Available from: Freestyle PD, 108 Woodside Way, Short Heath, Willenhall, West Midlands, WV12 5NH. Tel: 0922 404023. Price: £1.50 including P+P.

72%



WAYNE'S WORLD PONG

Game

Schwing! Who would have thought a simple game of Pong would have the CU AMIGA team queuing up for a waggle of the joystick? Well this did, for a few minutes at least. It's just a Pong TV game like the ones that came out in the 70s, but instead of going "blip" when you hit the ball, it say's "Schwing!" instead. When you miss the ball, you get one of a number of other samples from the film, such as "No way!...Way!" and other catchphrases from Mr Campbell's wonderful world. Anyone who likes reciting scenes from Wayne's World will lap it up.

Available from: 17 Bit Software, 1st Floor Offices, 2/8 Market Street, Wakefield, West Yorks, WF1 1DH. Tel: 0924 366982. Disk no. 2989. Price:£2.00 including P+P.

87%

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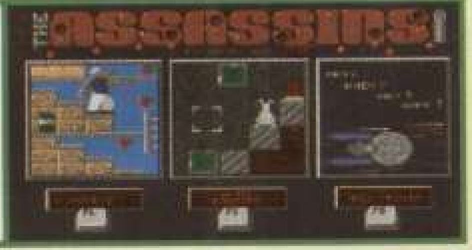
Assassins Game Compilations

The best selection of PD games ever assembled anywhere now all autoboot on A1200 (though you may find one or two that will still not run) Here are a selection of the most popular and highly recommended disks!

ASI 3	Megaball & Drip MEGAPACK
ASI 12	Llamatron, Car, XFI. MEGAPACK
ASI 13	Twintris, Squamble,Block it,Ball etc
ASI 14	China Chal. Columns MEGAPACK
ASI 22	Lemmingoids,Wizzys Quest, Mouthman
ASI 24	Revenge of camels, Plus. MEGAPACK
ASI 26	Superpacman, Smashtv MEGAPACK
ASI 27	Card games. MEGAPACK O' CARDS
ASI 28	Doody, DrMario, Invaders2

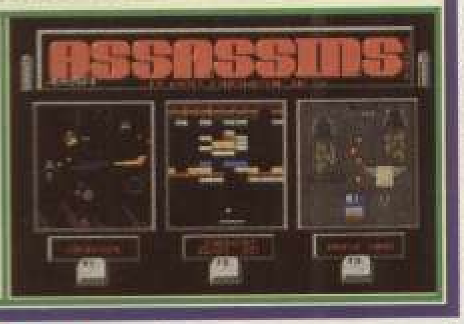
TYPICAL ASSASSINS MENU



ASI 33	Hyperball & War
ASI 36	Wond`land,DonkeyKong MEGAPACK
ASI 39	More card games MEGAPACK
ASI 40	Disk full of sliding block puzzle games
ASI 41	Pacman, Hellzone. MEGAPACK
ASI 42	Galaga, Intuder Alert MEGAPACK
ASI 46	Amiga Q, City,Checkers, Ouch etc
ASI 51	Lamers, Fighting Warrior Shapes
ASI 57	Poo-poo, Dominoes, Dizzy, Squirm
ASI 60	Pipe master2 Alien Hunter & Checkers
ASI 64	Oblivion(fab!) Breakout con kit etc
ASI 65	Paranoids, **Chess,** Word Puzzles
ASI 67	Siege of the Beast,E Type II & Vektor
ASI 69	Klondike,Celestial Poker Bridge etc
ASI 70	Wangle & Tetris pro. MEGAPACK
ASI 71	Numerix, Battleships MEGAPACK
ASI 74	Crazy pipes II,Bombjacky & Chute
ASI 76	**Gnu Chess**, Cubus & Gerb
ASI 77	Balloonacy, Cliff hanger & Descender
ASI 80	Army Miner Flip it,Golf The Gallows etc
ASI 86	Lords of Host, Legend of Lothian
ASI 89	Megaball 2.1, Cluedo MEGAPACK
ASI 94	Super skoda challenge, Giddy
ASI 95	Premier pics,Tangle, Super league man
ASI 96	**Dungeon Flipper, Backgammon**
ASI 100	Bloadrunner, Monaco MEGAPACK
ASI 102	Fruit Salad, Pacsim MEGAPACK
ASI 105	Particle man,Rummy
ASI 109	Psyco blast, Hamburger, Thrallbound
ASI 113	Trek trivia, Popeye MEGAPACK
ASI 115	Star trek SEU,Egyptian run, Slime line
ASI 118	Zombie Apoc, Last Tetris, Army Mines
ASI 123	Artilleros II, Lamerbug, Yahtzee
ASI 128	Space Inv, PacMan Delux, Solar Wars
ASI 138	Galactoid,Scorched Tanks,Air Hockey
ASI 139	The Big Game, Bat Dog, Amiganoid
ASI 140	Fatal Mission 2, Chronic the Hedgehog
ASI 142	Galaxy 93, Courtroom MEGAPACK
ASI 143	Intense, Xatoms, Pontoon
ASI 145	Puzzword, KungFuCharlies, Superpong
ASI 146	Entity, Amastermind, Classic Solitaire
ASI 147	Backgammon, Tuts Tomb, Mancala
ASI 148	Polymorph, Nostalgium MEGAPACK
ASI 149	Glodrick, Webz, Eric watch your step
ASI 150	D-Solve, Dot 2 Dot, Tactik Tank
ASI 151	Krillian , Caffeine MEGAPACK

MORE DISKS ALWAYS ARRIVING

TYPICAL ASSASSINS MENU



New Releases

PG 314/5	MR MEN OLYMPICS	Super Gam
PG 316	METAL MOTION	Operation wolf type sh
PG 317	KLAWZ	This is a nice platform
PG 318	BEETLE	Shareware platform game. 5 L
PG 319	PROFESSIONAL BINGO	Great, With
PG 320	SLIME	Yes its slimy! Destroy the
PG 321	ESCAPE MT DOOM	Dungeon type adve
PG 322	QUACKERS	A cute character platform
PG 323	ADVEN. OF BIG WILL & STICKY TROLL	
PG 324	EXIT 13	Very addictive puzzle

PG 325 MEGABALL 3 AGA
The BEST breakout game available? (1200 only)

PG 326	DART'S GAME	A nice darts
PG 327	NOSTROMO CHEATS	Tons of cheats on th
PG 328	GAME TAMER V4.59	Crammed with
PG 329/30	STARBASE 13	Graphic space adven
PU 420	PARNET CDTV BOOT DISK	For netw
PU 421	ASI DISK HELPER 1	Disksalv2 , Dcopy
PU 422	AZSPELL	New & improved spelling
PU 423	MULTIVISION 3	More super graphics
PU 424	LIGHTWAVE OBJECTS	For lightwave
PU 425	MAGIC WORKBENCH	Unpacks 8 colour
PU 426	LOCKPICK 2	Unprotects many prog
PU 427	ASI HELPER DISK 2	More useful
PU 428	MAP STATION	Game level map
PU 429	MAGNUM CREATOR V1.9	Diskmag
PU 430	GARDEN DESIGNER	Design your own
PU 431	MODEM MATE	Comms type prog
PU 432	BLACKBOARD	A graphics utility
PU 433/4	TWIN EXPRESS	Amiga-PC comms
PU 435	RUSH	A very good directory utility
PU 436	TELE TITLER	Video titling.
PU 437	TELE TITLER II	Hires video
PU 438	VIEWTEK 2	Latest version, Dos 2 or
PU 439	BAR CODER & OTHERS	Utilities
PU 440/5	IMAGINE OBJECTS & JPEG TEXTURES	
PU 446	CRUNCHERS PACK	30 different crunch
PU 447	MINIMORPH	A nice morphing pack
PU 448	SPIDERSOFT UTILS	Property protection
PU 449/50	DICE V2.5 C COMPILER	C Language (2 d
PU 451/2	HARLEQUIN FONTS	Hires fonts & Textures
PU 453	SOUND ENHANCER PROJECT	Intere
PU 454/5	THE HUMAN AURA	Interesting book
PU 456	THE MYSTERIES OF RUNES	All the
PE 063	DINOWARP	A nice quiz on dinos
PE 059	JAPANESE TUTOR	Teach yourself Jap
PE 060	IRREGULAR VERBS	A good quiz
PE 061	CHESS TUTOR	A simple chess tu
PE 062	ANIMAL LAND	Superb early lea
PA 150	RAGING HORMONE	Another funny
PA 151	X WING ANIM	Nice star wars anim
PA 152	NATIONAL WEATHER	Amusing little
PA 153	EARTH ORBIT	Watch the Earth re
PA 154	DAFFY LOSES HIS HEAD	Amusing
PP 131/2	ON THE GREEN	Funny golf anim.
PP 133/5	CHARLY CAT AT XMAS	Good, needs
PP 136	ATTACK ANIM	Great gulf type
PD 221	POINT OF SALE	Best AGA yet!! 1200
PD 222	PYGMY EXTENTION DEMO	Fast mo

PD 223/4 SPACEBALLS: NINE FINGERS
The most intense Amiga demo ever! Brilliant flashy rave graphics, great digitised dancers. Maybe best ever demo!!

PS 133	JURASSIC PARALLAX	Interesting Dinosaur
PS 134/7	COMPLETE MANGA	Fab colour pics (4) 1200
PS 138	STAR WARS SLIDESHOW	Nice space pic
PS 139/40	SHED TEARS	Nice fantasy pics 1200
PS 141	MAGIC SLIDESHOW 2	More Startrek pics 1200
PS 142	AKIRA & XMEN SLIDES	Superb Manga type

Business

PB 002/3	ANALYTICALC	Superb spreadsheet
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PB 030	MONEY PROGRAM	Home accounts
PB 031	EASYCALC	New Fast spreadsheet
PB 035	BUDGET V1.34	Personal Finance
PB 036	CHECKBOOKACCOUNTANT v2.01	
PB 038	BUDDBASE	Brill beginners D`base
PB 042	EASYCALC PLUS	Dos 2.0 or higher
PB 043	ACCOUNT MASTER	Home finance

Education

PE 007/8	LEARN & PLAY	for ages 5-10 yrs
PE 021/4	SCIENCE	Very good four disk set!
PE 035	KIDS DISK 1	Alphabet & Colours
PE 037	HOORAY FOR HENRIETTA	Preview
PE 038	HENRIETTAS SPELLS	Preview
PE 040	HOW EARTH BEGAN	Picture book
PE 042	CHILDRENS FAVOURITE	Kids fun!
PE 047/9	BACK TO SKOOL 1, 2, & 3	Kids
PE 052	COMMUNICATE	Sign Language
PE 058	WORD FACTORY	Brill spelling
PE 053	HIGHWAY CODE	Useful tutorial

PE 054 ARTISTIX
Superb art package given rave reviews

Disks in this advert will work on all Amigas (min 1mb) unless stated otherwise

Games

PG048	HOLY GRAIL	Text adventure
PG053	LARN	A superb text adventure game
PG059	LORE OF CONQUEST	Space D&D
PG063	MORIA	Classic adventure now v5.4
PG079	SEALANCE	Submarine strategy
PG199	CASHFRUIT	Nice fruit machine game
PG255	KINGDOM AT WAR	Strategy war
PG260/1	18TH HOLE	Excellent golf! (2 disks)
PG264	SOLITAIRE SAMPLER	Card games
PG279/80	OLYMPIAD	Lemming games (2d)

Music

PM 016	BEATLES SONIX	Nice music
PM 026	DEPECHE MODE	Tracked tunes
PM 134/5	SOUNDS OF SCIENCE	Brill
PM 155	VINE G-RAVE	5 good rave tracks
PM 164	OCTAROCK 3D	8 track & 3d gfx
PM 167/8	JESUS ON E`S	Mega GFX-2 drive
PM 176	TUNE UP THE BASE	Killer Rave
PM 181/2	PASTEL VANILLA	Super cool
PM 189	CHIP 'N' DIP	20 chip music tunes
PM 190/1	DANCE TRASH	2 disk set of rave

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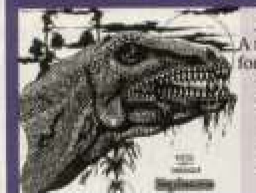

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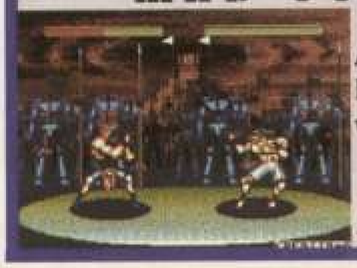
MAD FIGHTERS A1200



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Fab graphics
Unbelievable!!!
Amiga 1200 only

Utilities

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PU 112/3	SOMETHING FOR NOTHIN	Video Utils
PU 121/2	TV GRAPHICS	Dpaint backdrops&Fonts
PU 129/30	VIDEO APPLICATIONS	Video utilities
PU 198	VIDEO WIPES	Masks & fades Dpaint 3/4
PU 215	CAPTIONATOR	Shareware video titling
PU 286	INSCRIPT	Program for Video titling
PU 037	D-COPY	The best PD disk copier
PU 064	HARDDRIVE UTILS	MR.Backup, FixDisk
PU 067	IMPLODER V4.0	Mega crunching Util
PU 080	MESSY-SID 2	Read/Write PC Files, Brilliant
PU 189	TRONIK VIRUS KILLERS	Virus killers, docs
PU 012	ASI GRAFFIX UTILS	Graphics convertors
PU 063	HAMLAB PRO V2.08	Convert PC pics
PU 139	GFX CONVERTERS	PC>Amiga gfx
PU 065	ICONMANIA	Program icons & more
PU 066	ICONS	Cramm packed with icons
PU 124	ULTIMATE ICONS	Iconmaster,Iconlab
PU 221-225	8 COLOR ICONS	Hundreds of icons
PU 192	SID 2	Get this! Shareware directory util
PU 205	PC TASK	PC Emulator Version 2, VGA
PU 207	MULTISID	Combine SID2 & Multidos
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PU 279	V MORPH V2.30	PD morphing prog!
PU 280	POOLS WIZARD	Pools prediction
PU 287	NUMPAD	Numeric keypad for A600
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PU 367	PE LABEL PRINT UTILS	U
PU 326	PLOTTER	Plots two dimensional fun
PU 071	JR COMM 1.02	Modem comms pa
PU 349	NCOMM V3.00	Comms pa
PU 385	LEMMINGS 2 HD INSTALLER	
PU 386	KITE SIMULATOR	Works with
PU 387	REORG	Good hard drive org
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PU 395	MENU MASTER 3	Floppy menu
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PU 158	CLIP ART 7	Environment,Food,Drink,Home.
PU 159	CLIP ART 8	Valentines, Weddings, Leisure
PU 160	CLIP ART 9	Birthdays, Xmas, Easter, etc
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Colour Clip Art

r Clip Art (CCL) series contain images in HAM and therefore will only load into D'Paint 4 or maybe DTP Most disk do however, self-boot and have their own built in viewer so you can see the pictures.

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URE SAMPLES	Assorted samples
MPLE FACTORY	Sound effects
PMAN SAMPLES	over 70 samples here
AVE SAMPLES	Bass & Drums
MPLEMAKER V3.1	Make samples

ssical Music

IGADEUS CLASSICAL	Eine Kleiner etc
CLASSICAL MUSIC	Bach, Handel etc
GITAL DEBUSSY	Fab Rob Baxter versions
GITAL DEBUSSYII	classic Debussy music
APSODY IN BLUE	tracked by Rob Baxter
VIVALDI - FOUR SEASONS (2)	
MOZART HORNCONCERTOS	(1mb chip)
ACH BRANDENBURG CONCERTOS	1to6
OP HARPSICHORD RECITAL	Classics
ASSIC WORKS	Grieg & Bach classics! +Y
ASSIX GOLD	Toccata & Fugue (1mb chip)
ZART FLUTE CONCERTOS	1mg chip

A1200 only

0 WORKBENCH HACKS	Useless fun
0 UTILS1	Gif & PCX datatypes etc
I FIX DISK	Run old programs on dos2/3
EEPLESS NIGHTS	Utils useful for 1200
ORKBENCH 3 BACKGROUNDS	
NDBLEND	Super effects in a window
0 INTROS	Yes, some AGA intros
Y AGA DEMO	1st 1200 demo,a must
VID: ABSTRAX PIG AGA	Colourful demo
A CHESS	Needs 4mg of ram to play
A TETRIS	1200 tetris game & more
A KLONDYKE	Nice quality cards (3)
GHTBREED AGA SLIDESHOW	Super(2)
NOSTIC SLIDESHOW	Superb pictures
ITH RHODES SLIDE	3 fantasy pics
TEVE PACKER	10 disk set of Steves anims
GHTBREED AGA FRACTAL FLIGHT	

Animations

Note:All anims require 1mb of memory unless stated (e.g. 3mb = 3 megabytes required) Most of these come on more than 1 disk. (e.g. PA 091/3 is a 3 disk set)

PA 072	THE JUGGLER	A classic amiga demo
PA 091/3	TURBINE, STEAM & PETROL (3)	Engines
PA 101	DOLPHIN DREAMS	Great Dolphin anim
PA 119	STEAM ANIMATION V2.0	Now with sound
PP 046	SWEET REVENGE	Coyote vs Roadrunner(2mb)
PP 004/7	AUTOMATED LIGHT (4)	Galactica (3mb)
PP 077/84	THE HAUNTED (8)	Tremendous (3mb)
PP 113/4	CALVIN & HOBBES (2)	Super Cartoon (3mb)

Agatron Animations

AGA 03	STAR TREK	Shuttle fly past - Great
AGA 10	STAR TREK	Enterprise in dry dock. Incredible
AGA 23	FLEET MANOEVRE	Stunning animation
AGA 25	THE RUN	A suberb car chase
AGA 29	MILLENIUM FALCON	The ship being chased

Eric Schwartz

PA 039	AMY VS WALKER	Cute & sexy! 1.5mb
PA 040	BATMAN vs JOKER	Very funny
PA 045	STEALTHY II	Mig-29 vs Stealthy
PP 001/2	ANTI LEMMINGS (2)	Brilliant Spoof (2mb)
PP 016	GULF WAR	Brilliant fun (2mb)
PP 050	UNSPORTING	Wicked aerotoon (2mb)
PP 070/1	LEMMING REVENGE(2)	One of the best(2mb)
PP 101/4	QUALITY TIME (4)	Superb (5mb)

Demos

PLEASE NOTE (NT) means NOT AMIGA 1200

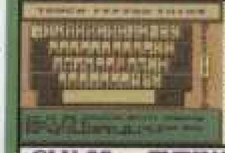
PD 068	PHENOMENA ENIGMA	Absolutely brilliant
PD 094	SCOOPEX MENTAL HANGOVER	Wow!(nt)

PD130/34 ALCATRAZ ODDESSY
Awesome 5 disk, 35 minute spacey animation (NT)

PD 154	DECAY GET FROGGED	Superb quality
PD 171/2	SILENTS EXPOSE(2)	Incredible Get it
PD 182	SPACEBALL	Absolutely brill, needs 1meg chip
PD 183	DIGITAL: LETHAL EXIT	Good vectors demo
PD 185/6	ANDROMEDA MIRROR	Fab Music & Gfx
PD 188	SANITY WORLD OF COMMODORE	Super
PD 189/90	SILENTS DEMON DOWNLOAD	Fab demo
PD 200	PHOENIX DEMOS	inc Flashy rave demo
PD 202	TECHNOLOGICAL DEATH	Freaky techno
PD 206	MELON HOW TO SKIN A CAT	Nice effects
PD 209	STONE ARTS ATMOSPHERE	Nice demo
PD 213	TROJAN TECKNO TRACKS	Amazing effects

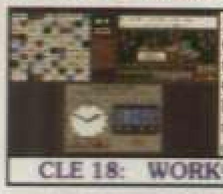
PD 216/7 A TRIP TO DEEP BASE
Mega rave demo better than Jesus on E's !!!!

Central Licenceware Collection



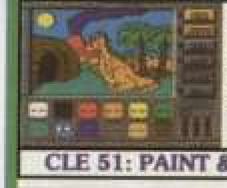
Everyone should learn to type, and now is the time with this popular tutor. The structured lessons will soon have you wizzing around the keyboard at a fraction of the price of a commercial tutor.

CLU 03: TYPING TUTOR £3.50



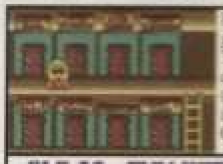
3 Good educational games. **ClickClock** teaches the time, **Funtimes Tables**, and **Go Shopping**, are practical help to learning maths. All nicely presented and colourful to amuse chil-

CLE 18: WORK & PLAY £3.50



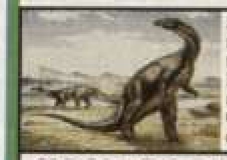
A great colouring and drawing package for the young artist. Lots of outline pictures to colour, or you can alter or add to them. Nice and easy to use and highly recommended.

CLE 51: PAINT & DRAW £3.50



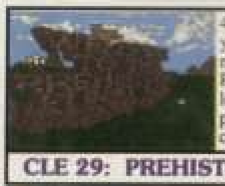
8 Different fun and learning games for young children. The endorsement for this disk is that the follow up (Fun with Cubby 2,CLE45) is also a very popular disk. Great fun for children.

CLE 28: FUN WITH CUBBY £3.50



Superbly presented information and pictures about the subject of the moment. How and where they lived, all popular 'saurs covered. One of the most popular disks in CLR! (2 disks)

CLE 01: T.C. DINOSAURS £4.50



4 classic fun games for young children all on a dinosaur theme. Possibly more fun than learning, but bound to be popular with the jurassic connection.

CLE 29: PREHISTORIC FUN £3.50

Another Total Concepts production, looking at our planet and its neighbours. Plenty of info and some really great pictures on 3 disks. (Also available: CLE 35, Solar System 2, £4.99)

CLE 03: T.C. SOLAR SYSTEM £5.50

Massive graphic adventure game originally destined for commercial release. Wonder around the populous type landscape and interact with the people you meet.

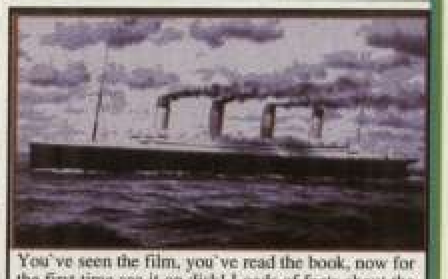
CLG 42: CRYSTAL SKULL £3.50

This should be commercial but luckily it isn't! A brilliant platform game on the lines of Rodland. Kill the baddies, collect the fruits, then sort out the end of level guardians. Super

CLG 30: CAPTAIN K £3.50

Don't take my word for it, a 90% rating from CU should tell you this is a cracking cockpit view racing game. Includes loads of options, practice, race etc. plus adjusments to the car.

CLG 41: F1. RACER £3.50



You've seen the film, you've read the book, now for the first time see it on disk! Loads of facts about the ship and the sinking, including a timetable of disaster! 28 mono and colour slides. Excellent presentation on 3 disks.

CLE 54: THE TITANIC £4.50

Other titles in the CLR range

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CLE 02	TOTAL CONCEPTS: GEOLOGY 2	£4.50
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CLE 06	TAMI Maths equations solver	£3.50
CLE 07	TC: FRESHWATER FISHING Where, bait, etc	£4.50
CLE 10	BASICALLY AMIGA (3 disk set) Info.	£5.50
CLE 11	LETS LEARN Young education	£3.50
CLE 12	ALPHABET TEACH Simple spelling	£3.50
CLE 16	KINGS AND QUEENS History	£4.50
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CLE 27	CATT (Tarot Card Tutor) (2 Disks)	£4.50
CLE 29	PREHISTORIC FUNPACK Kids fun	£3.50
CLE 32	SPITFIRE (2 disks) Information	£4.50
CLE 35	TOTAL CONCEPTS: SOLAR SYSTEM 2	£5.50
CLE 36	THE TIME MACHINE Tell the time	£3.50
CLE 37	DISCOVERY OF AMERICA Info.	£3.50
CLE 41	BASICALLY MEDICINE Medical & First Aid	£4.50
CLE 45	FUN WITH CUBBY 2 Young fun	£3.50
CLE 46	BASIC HUMAN ANATOMY Info.	£3.50
CLE 47	SEA SENSE Boat owners info	£3.50
CLE 49	TOTAL CONCEPTS: DINISAURS 3 (3 Disks)	£5.50
CLE 50	D.R.A.T. Runestone future prediction	£4.50
CLE 52	TELL THE TIME Time teaching aid	£3.50

GAMES		
CLG 08	TRUCKING ON 2 Management sim.	£4.50
CLG 13	PARADOX Puzzle game	£3.50
CLG 16	CRYSTAL MAZE Pacman style maze panic	£3.50
CLG 17	IMBRIUM Excellent graphic adventure	£3.50
CLG 20	JUNGLE BUNGLE Kids graphic adventure	£3.50
CLG 24	EASY MONEY Fruit machine	£3.50
CLG 25	WHITE RABBITS Super puzzle	£3.50
CLG 27	SHYMER Kids adventure	£3.50
CLG 28	TIME RIFT Good platform	£3.50
CLG 30	CAPTAIN K Rodland type platform	£3.50
CLG 35	OG! Chuck Rock type game	£3.50
CLG 38	QUINGO Pub quiz machine	£3.50
CLG 40	TRAX Brilliant fruit machine sim	£3.50

UTILITY SOFTWARE		
CLU 01	VIDEO TITLER Create video titles	£3.50
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CLU 13	DATOS Powerful database system	£3.50
CLU 14	STOCK CONTROLLER	£3.50
CLU 16	CROSS STITCH D'Paint pics to patterns!	£3.50
CLU 22	HARD DRIVE MENU SYSTEM	£3.50
CLU 27	IMAGE BASE Database	£3.50
CLU 30	DRAW SELECTOR Pools prediction!	£3.50
CLU 31	FLOWCHARTER Flow chart creater	£3.50

CLG 40 T.R.A.X.

If you like fruit machine simulations you will love this one! The big problem is you can not actually win money from your Amiga, but here the object is to complete the feature and winning money just gives you more tries! Includes mini arcade games too. Hard to complete but very adictive! £3.50

CLU 32 POWER TEXT

Nicely presented, fully featured word processor with most of the facilities found on the expensive commercial versions, including a spelling checker, auto save, mail merge, word wrapping, and more. For the beginner, there are plenty of documents and instuctions on the disk, to get you started. Recommended! £3.50

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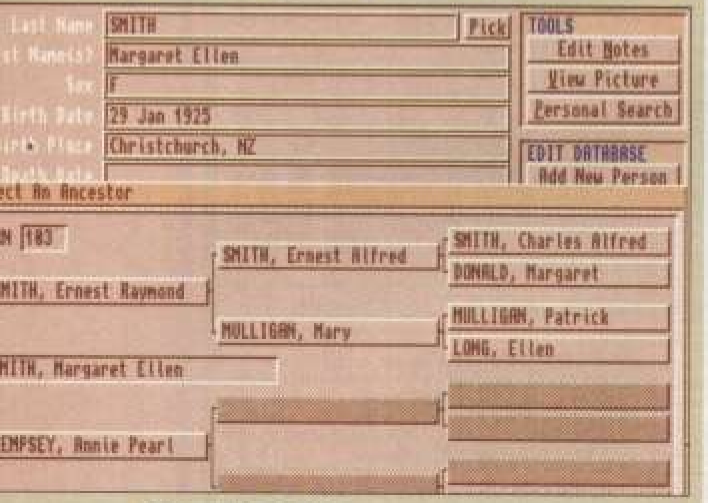
PD UTILITIES

Jason Holborn wades through a mountain of disks to bring you a rundown of what's hot and what's not in the world of public domain utilities.


Last Name: SMITH
First Name(s): Margaret Ellen
Sex: F
Birth Date: 29 Jan 1925
Birth Place: Christchurch, NZ

ect An Ancestor

N 103

SMITH, Ernest Raymond
SMITH, Ernest Alfred
SMITH, Charles Alfred
DONALD, Margaret
MULLIGAN, Mary
MULLIGAN, Patrick
LONG, Ellen
MITH, Margaret Ellen
EMPSEY, Annie Pearl

SCION

Application

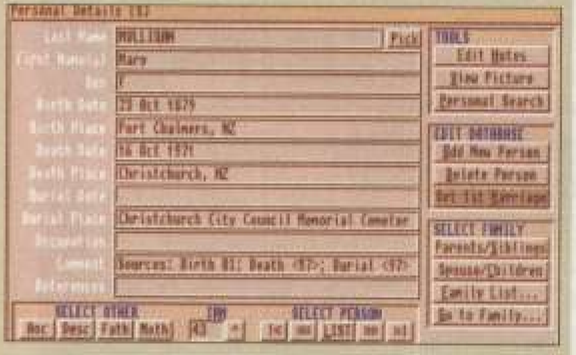
Unless you still strongly believe that your parents found you under the gooseberry bush at the back of the garden, you may want to trace your family history. Keeping track of who was married to who and who died when can be a complicated job for even the most powerful database and so a genealogy database is definitely a much better bet. And, not surprisingly, this is exactly what *Scion* is.

Up until recently the only real genealogy database available for the Amiga was a little PD program called *AGene* which was not only rather expensive but rather naff too. *Scion*, on the other hand, has obviously been written by someone who not only understands the subject very well indeed, but also happens to have a damned good grasp of the Amiga's operating system. Boasting a full Workbench 2.0 front end, *Scion* is very easy to use. Even if you do get a little bogged down, there's an absolutely massive documentation file to guide you through the program's every feature.

Like all genealogy programs, *Scion* works by linking together records on individuals. Each record contains information on a single member of your family – their surname, first name, date of birth, date of death (if appropriate) and where they were buried (just in case you forget where to send the flowers). One nice feature is that you can attach a picture to each record so, providing you're lucky enough to own a digitiser and a video camera, you could quite easily turn the database into a sort of family album. Highly recommended.

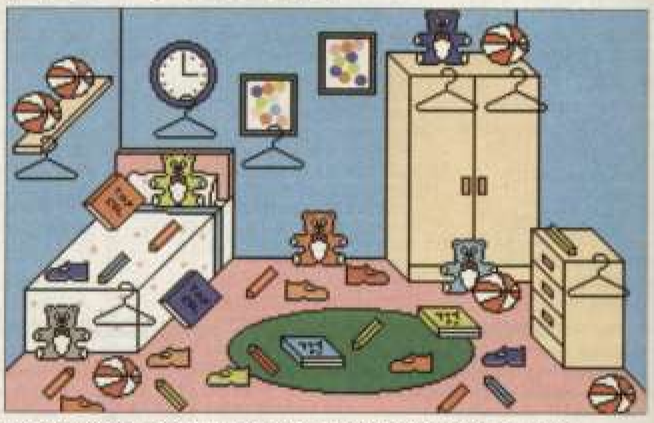
Available from: Scribble PD, 2 Hillside Cottages, Burstall, Suffolk IP8 3DY. Disk No. V285.

92%


MULLIGAN
Mary
F
Port Chalmers, NZ
Christchurch, NZ
Christchurch City Council Memorial Cemeter

THROUGH THE RED DOOR

Educational



Europress' AMOS may not have proved to be the answer to every would-be games programmer's dream but it certainly proved its worth as a tool for generating educational software. Even Europress' own range of 'FunSchool' products were written entirely in AMOS. Not surprisingly, AMOS is responsible for this collection of four very simple educational programs aimed at children between three and five years of age. Featuring bright and colourful graphics and cheerful sound effects, *Through the Red Door* is another great PD educational pack. The disk contains five educational 'mini programs' which are accessed by 'ringing' the appropriate doorbell when the program's main screen appears. The first program is 'Colours' in which you have to help Simon and Sarah to choose the colours of objects in the playroom, the countryside and the seaside. Next up is 'Numbers' which sees you helping Sarah to find the missing animals in the shop, garden and bedroom (sheep in your bedroom? I'm starting to worry about this...). Finally, we have *Clothes* and *Letters*, two equally jolly educational games along the same lines as the first two but concentrating on different skills.

Through the *Red Door* certainly isn't up to the same standards as professional educational software such as Europress' FunSchool series but it's an enjoyable and well designed disk nonetheless. If you need a disk that will keep the kids quiet for a few hours then this may be the answer.

Available from F1 Licenseware, 31 Wellington Roads, Exeter, Devon EX2 9DU. Disk No. F1013. Tel: 0392 493 580. Price £2.99 including P+P.

78%

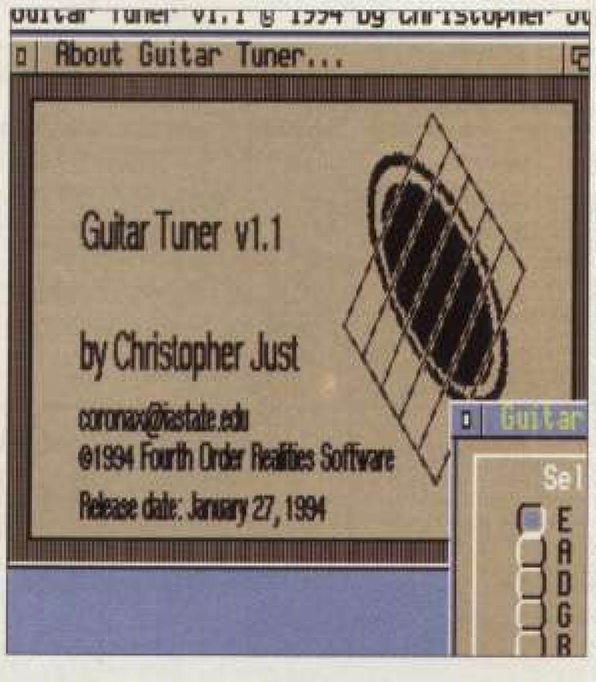
GUITAR TUNER

Utility

Now this is what we want – a genuinely useful utility. Okay, so describing Guitar Tuner as 'genuinely useful' is possibly stretching the facts a bit, but then a program such as 'Graveyard Planner' would probably be genuinely useful utility to a gravedigger. As its name would suggest, Guitar Tuner is a little utility that aims to help you tune your guitar. It uses the Amiga's sound chip to produce the open string notes, whatever they are, (plucking a string without fingering the fretboard, actually – *Ed*) giving you a handy reference point when tuning your guitar.

Available from: Scribble PD, 2 Hillside Cottages, Burstall, Suffolk IP8 3DY. Disk No. V286.

78%

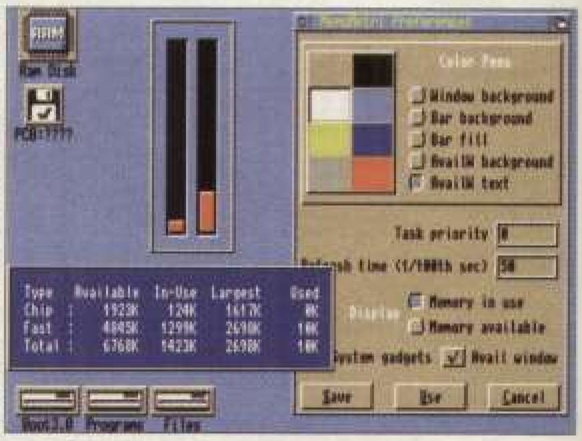

Guitar Tuner v1.1 © 1994 by Christopher Ju

About Guitar Tuner...

Guitar Tuner v1.1

by Christopher Just

coronax@iastate.edu
©1994 Fourth Order Realities Software
Release date: January 27, 1994


```
Type   Available  In-Use  Largest  Used
Chip  :    1923K    124K    1617K    0K
Fast  :    4845K   1299K    2698K   10K
Total :    6768K   1423K    2698K   10K
```
Task priority 0
Refresh time (1/100th sec) 50
Display ● Memory in use ○ Memory available
System gadgets ☑ Avail window

MEMOMETRI

Utility

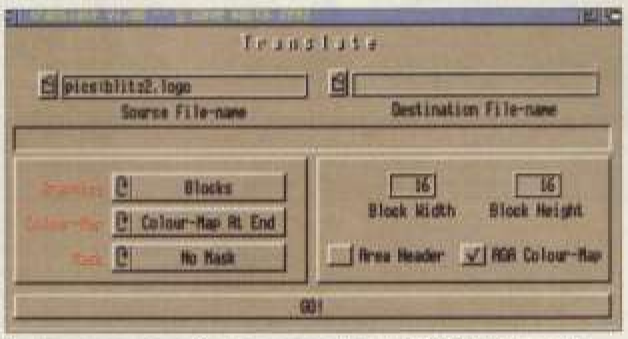
If you're the sort of person that likes to show everyone just how big yours really is (your computer's memory, that is) then you need MemoMetri. Written by Petri Airio, *MemoMetri* is yet another memory gauge utility that graphically displays the amount of chip and fast memory inside your Amiga. So what? I hear you ask. After all, memory gauges are hardly state of the art. What really makes *MemoMetri* special, however, is the amount of control it gives you over its configuration.

Boasting a full Workbench 2.0-compliant front end, *MemoMetri* allows you to not only scale the size of its window but also gain full control over the colour pens of every gadget. Two types of memory display are offered – a text window (the most precise display) and a bar graph (not so precise but a lot prettier). Not exactly state of the art but useful nonetheless.

Available from: Scribble PD, 2 Hillside Cottages, Burstall, Suffolk IP8 3DY. Disk No. V286.

75%

TRANSLATE
Utility



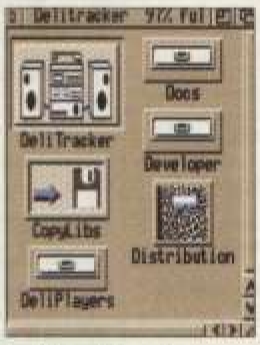
If you're coding games or demos on the Amiga then chances are that you use a paint program such as *Brilliance* or *Deluxe Paint* to repair the images that you use in your programs. Working with IFF files is all very nice if you're writing a graphics program but they're a real pain for games programming. Most games programmers use a utility that converts IFF images into raw bitplane data that can then be pulled straight into their programs using an assembler 'INCBIN' directive.

Translate is such a utility, allowing you to extract raw image data from any IFF file. Unlike similar programs on the Amiga, however, Translate is a bit special as it can handle IFF files with up to 24 bitplanes (a 24-bit game – now that would be impressive!) and 8-bit AGA colour palette definitions. Translate can also convert an image file into raw graphic blocks such as those used in map-based games. Combine this power with a front end that takes full advantage of Workbench 2.0 and *Translate* is a must for all assembler programmers.

Available from: Scribble PD, 2 Hillside Cottages, Burstall, Suffolk IP8 3DY.
Disk No. V284.

82%

DELITRACKER
Utility

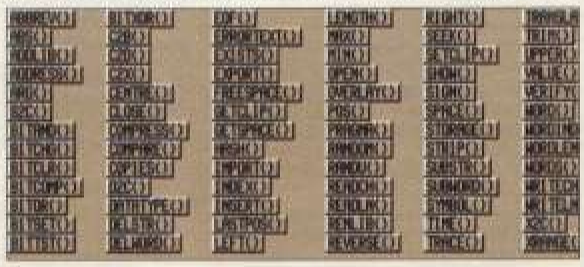


Module players seem to be all the rage these days but very few of them support more than one or two different types of module format. *DeliTracker*, on the other hand, not only supports more sound module formats than you can shake a cocktail stick at as standard, but its modular design allows it to be expanded simply by placing new file modules into the appropriate directory. As standard *DeliTracker* supports a wide range of sound module formats including Sound Tracker 15 and 31 instrument modules, *NoiseTracker*, *ProTracker* (all versions), *StarTreker*, *GVP DSS-8* modules and so on.

When run *DeliTracker* opens a tiny window on the Workbench, packed with gadgets. Using Workbench 2.0's new ASL requesters, you can then multiple select a whole batch of modules which are then automatically identified and loaded into memory ready to be played back. DeliTracker is very system friendly and so it doesn't eat up valuable processor cycles and even runs under Commodities Exchange. It may not be as pretty as other module players that we've seen but it's certainly the most capable.

Available from: Ground Zero Software.
Disk No: V344. Tel: 0272 741 462
Price: £1.00 plus £1 P+P.

80%



AREXX MANUAL
Reference

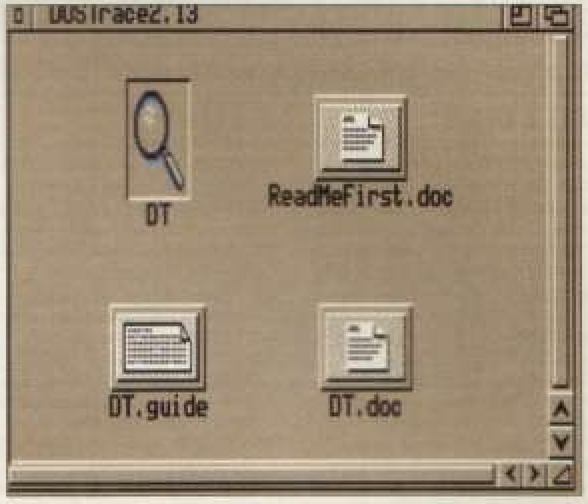
Commodore have received more than their fair share of stick as a result of their decision not to bundle the official *ARexx* documentation with either the A600 or the A1200. Although A4000 owners get the required manuals, the rest of us are forced to buy a book on the subject if we want to write a script that does anything more exciting than printing 'Hello World' on the screen.

Thankfully, PD writer Kenny G has come to the rescue with his *ARexx* Manual, a disk-based guide to the *ARexx* language bundled free of charge with all Amigas. Built around Commodore's powerful 'AmigaGuide' utility, the *ARexx* manual takes full advantage of the hypertext links offered by AmigaGuide, making it very easy to access the information you want. The manual provides a comprehensive guide to virtually every aspect of programming in *ARexx* in a very well written and well organised format. If you can't quite push to the price of a book then this is the next best thing.

Available from: Ground Zero Software.
Disk No: V301. Tel:0272 471 462.
Price:£1.00 plus £1.00 P+P.

82%

DOSTRACE 2.13
Utility



Have you ever encountered problems installing software onto your hard disk? More often than not, the problem can usually be accredited to a missing system file or library which you may have forgotten to copy across onto your hard disk. Unless you've got a copy of *DOSTrace*, finding such a fault is an almost impossible task.

DOSTrace is a small utility that, when run, opens up a window on the Workbench. When you then run a program, every single read and write operation performed by both the Amiga's operating system and the program you're attempting to load will be displayed in *DOSTrace*'s window. If your program failed to load because it could not find a file that it needed, the name of the file along with its expected pathname will be marked with a 'Failed' tag.

You can then install the file and try again until the program is successfully installed on your hard disk. In all, *DOSTrace* is an valuable utility for all hard disk owners.

Available from: Scribble PD, 2 Hillside Cottages, Burstall, Suffolk IP8 3DY.
Disk No. V284.

80%

»

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UTILITIES

- U001 +A-GENE program helps you trace your family tree
- U002 +AMIGA SYSTEM TESTER C.L.I. base tester
- U088 LABEL DESIGNER Good labels designer
- U101 DATA BASE WORKSHOP (2 disks) Database compilation
- U144 AMIGA FOX D.T.P. Desk Top Publishing for the Amiga
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- U731 A-Z CHEAT 529 different games cheats

GAMES

- G096 POPEYE LCD C64 classic conversion
- G112 CUBULUS puzzle games based on a RUBIK CUBE
- G222 MEGA 21 GAMES collection of 21 game packs
- G235 DRAGON CAVE The best animated 3D puzzle game ever. Very similar to Dungeon & Dragon type games
- G237 SCRABBLE high quality board games conversion. Up to 4 player or play with computer. (not A1200)
- G256 INSIDER CLUB buy/sell Stock Exchange games. Share objective of the games is making money
- G272 TANK BATTLE Brilliant 2 player game
- G274 MR DUG Arcade conversion (few years back)
- G329 MADONNA NUDE PUZZLES 15 puzzles (jigsaw game)
- G330 TOP SECRET Brilliant platform games similar to OCEAN RAINBOW & PARASOL (not A1200)
- G333 CYBER-NETIC regarded the best defender type games with all usual powerup. Recommended
- G334 DONKEY KONG Rescue your girlfriend (not A1200)
- G335 CRAZY SUE 2 cute platform games. Brilliant graphics
- G356 WONDERLAND brilliant Mario Brother games clone
- G362 DELUXE PACMAN Still the best Pacman ever released
- G366 BINGO CALLER Amaze your gran with this fully speech bingo caller
- G373 AIR ACE II Very playable ZENON 3 shoot games
- G389 CASINO GAMES Lots of casino type games
- G390 TETREN tetris clone (90% mark in AMIGA FORMAT)
- G393 BUBBLE GHOST Game boy conversion & very playable
- G400 FIGHTING WARRIOR PD version of Street Fighter 2 amazing large graphic & it is £21.99 cheaper
- G410 FATAL MISSION Nemesis clone with 1 or 2 player
- G417 FIVE STAR 22 PUZZLE PACK Amazing collection of 22 puzzle type games, our top seller
- G422 SERENE 3 similar to the commercial game ZENON
- G435 ROULETTE the best Casino roulette simulation yet
- G438 TRAILBLAZER conversion of the C64 classic game
- G441 E TYPE 2 the best asteroid clone ever
- G443 OLYMPIAD DISK (2 disk) Sport event with Lemmings as the star (very good)
- G460 WIBBLE WORLD GIDDY Brilliant platform game with very large & cute graphics similar to the DIZZY series
- G470 BALL LIGHTNING 1 or 2 player multi level platform
- G490 MEGA BALL 2 new & highly playable breakout
- G500 TRANSPLANT Voted the best game of 93, brilliant E-TYPE clone but much better, loads of power up & level
- G502 DRAGON FIRE Excellent graphics (A500 only)
- G519 LABYRINTH II Very good text only adventure
- G520 FATAL MISSION 2 (new see G410)
- G521 FRUIT SALAD VG collect/ platform type games
- G530 MAD FIGHTER (A1200 only) Superb street fighter 2 clone with very large well animated characters
- G531 OPERATION FIRE STORM detailed graphic platform games with lots of action/shooting element. Brilliant
- G532 AGA KLONDIKE (A1200 only) (3 disks) the best card games yet & each card has different glamour girls pic
- G535 BLACK DAWN the best RGP games yet similar to HIRES GUN, very highly rated in most Amiga magazines
- G540 ORK ATTACK Very bloody shooting games with large & detailed graphics
- G545 KUNG FU CHARLIES Very cute & playable kung fu games with platform
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- G568 MONACO Fast furious racing games
- G569 SUPERIX Birds eye view Formula 1 racing games
- G525 GRAND PRIX MANAGER 93 Very good management type games, use point & click system, good
- G526 MENTAL IMAGE 1 contains 3 games
- G527 MENTAL IMAGE 2 contains 3 games
- G528 MICRO MARKET well presented stock market games
- G529 SKID MARK extremely realistic & very playable 4 x 4 of road racing games
- G534 CASTLE KUMQUAT Very good overhead (like Alien Breed) games puzzle with lot of inter connect level
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- G546 RAID 4 more refined vertical shoot em up
- G657 AMOS LOADSA MONEY another very good fruit machine simulation with exceptionally large reel
- G659 SLAM BALL Manage your own futuristic team
- G660 L.C.D. DREAM Straight conversion of 4 LCD games including Octopus, Parachute, Fire Attack, Oil Panic
- G661 POP QUIZ Answer by click on A, B or C box

More games compilations see the ASSASSIN collection

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- E001 KIDS PAINT Paint package designed for kids
- E002 COLOUR KIT Colour book for kids
- E003 TREASURE SEARCH Find the hidden treasure
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- E005 LEARN & PLAY II for kids (order together)
- E006 SPANISH TRANSLATOR (English to Spanish)
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- E009 ASTRONOMY tutorial on solar, star system
- E010 SIMON & SPACE MATHS Maths & Simon games
- E011 EDUCATION PACK 1 (5 disks) Lots of education programs range from Maths to games. We recommend you buy this collection
- E019 DINOSAURS Explains what is a dinosaur
- E021 STORY LAND II Interact puzzle game with 4 worlds to visit & solve (buy it... recommended)
- E022 LANGUAGE TUTOR 4 languages
- E023 TALKING COLOURING BOOK Very good Art/Paint package that talks
- E024 EASY SPELL II Improve on their spelling
- E025 SCRABBLE (not A1200) board game
- E026 WORDS Can help you solve crosswords
- E027 OSWALD large cartoon game kids will love
- E31 IQ TEST + IQ GAMES Great to test your IQ
- E33 +KEYCLICK II Good typing tutor
- E35 CHESS HELPER chess tutor program
- E38 AMIGA TUTORIAL explains about AMIGA
- E39 COMPUTER CARE
- E40 +GUIDE TO LOWER BACK PAIN Tutorial on the spine & how to avoid back pain
- E42 +FRACTION & SEQUEST 2 good Maths programs
- E44 STEAM ENGINE V2 Cut away animation of the Steam Engine
- E45 PETROL ENGINE Cut away animation of the petrol engine
- E46 GAS TURBINE ENGINE Cut away animation of the gas turbine engine
- E54 DEMOLITION MISSION Simple game for kids, destroy buildings
- E57 APPLE CATCHER Good graphics easy to play
- E58 CROSS MAZE & CRYPTOKING
- E59 VERB QUIZ Testing you or your child the word & it related
- E61 KING JAMES BIBLE (4 disks) A complete bible on 4 disks fully menu driven
- E70 +MATHS DRILLS Help kids improve maths etc
- E071 +ERROR INFO Gives info on error guru message
- E074 +AMIGA BEGINNER GUIDE
- E075 +WORLD WAR 2 2nd World War with maps/pics
- E076 SCIENCE (4 disks) Excellent mix of physics, chemistry & science programs. Recommended
- E080 KIDPRIX New paint package specially for kids
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- E115 ELECTRONIC WORLDS (3 disks) new K. James bibles
- E116 HOW THE EARTH BEGAN Info on the Big Bang

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- D091 STAR WARS DEMO (2 disks and A500 only) Super starwar demo, lots of X wing anim
- D107 ODDYSEE (5 disk & A500 only) Incredible 40 minute space epic journey movies. Recommended
- D118 STAR TREK MEGA DEMO A (A500, A1200)
- D120 1911 VOYAGE Brilliant demo lot of fill vector
- D152 THE ELECTRIC TOUCH Multi scroll vector etc
- D174 ACID MIX 5 brilliant aid track
- D261 FONTIER Incredible Elite 2 demo animation
- D251 MANGA WORLD Brilliant manga slideshow
- D252 JAPANESE LANG Learn how to speak Japanese
- D253 SUNTEAM GG ESWAT Eswat games
- D254 AKIRA DEMO Akira Manga demo
- D255 TROOP JUGERNORT 1 Story & games
- D256 MANGA WORLD 2 More Manga slide show
- D257 SUNTEAM QUIZ Quiz
- D258 MAKE IT SO EASY Guess

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- AGA003 WORKBENCH HACK Load of hack/toy/blanker etc
- AGA006 NEW SUPERKILLER Know & kill 316 types of virus. well recommended
- AGA007 MINDWARP one of the very first demo for the A1200
- AGA011 SLEEPLESS NIGHT 3
- AGA012 PLANET GROOVE release by Team Hoi
- AGA013 MOTOR INVADER 2 (2 Disks) Very playable INVADER clone set. Recommended
- AGA015 POINT OF SCALE Stunning vector demo came direct from France
- AGA016 CHROMA good demo
- AGA017 WORLD OF MANGA AGA (4 disks) Load of cute Manga chic slide show in stunning 256 colours
- AGA021 MAGIC WORKBENCH Improve the look & add extra command to your Workbench (HD required)
- AGA023 U-CHESS the best chess program so far, stunning graphic but requires 4 megabytes
- AGA024 WORKBENCH 3 SCREEN Great back drop for A1200 (not for beginners)
- AGA41 GIF BEAUTIES VOL 1-10 Available each disk auto boot & contain loads of stunning pics of raunchy women. Note fully compatible with any Amiga
- AGA062 BODY SHOP VOL 1-7 Available (2 disks each) See description above (A1200 only) & order with volume number 1 to 7 (2 disks per volume)
- AGA080 FIT CHICK VOL 1-5 Available (2 disks each) see description above (A1200 only)
- AGA90 ASSASSIN FIX DISK 1 brilliant collection of degrade utilities for running non compatible software, we recommended you get this 2 disk now
- AGA91 ASSASSIN FIX DISK 2 (new) latest contained more degrade utility (see above) Recommended

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U686 Genealogist 3.04 *
U689 Mr. Backup 1.14b + Y
U691 KS AGA 2.0 *
U692 LSD copiers
U697/98 Tool Mngr 2.1*(2)
U713 Asi crunch & copy 2
U718 Astronomy 1 + Y
U727 HD Installer *
U730 Disk salvage 2 *
U737 Cheat list + Y
U738 Planetarium + Y
U749 Print Manager *
U753 Dynamite Fonts 2 +Y
U754 EDWord Pro 4.0 + Y
U755 Dart Machine +
U756 Lockpick 2 + Y
U757 Print a card +
U758 Pools Wizard + Y
U759 Virus Protection +
U762 A1200 classic fixes1*
U763 A1200 classic fixes2*
U764 Back to school 1 + Y
U765 Back to school 2 + Y
U766 Music Rippers +
U771 Numpad A600 only
U772 Flashing Bytes Uti 3+
U773 Dream Paint + Y
U796 Video production 3+
U797 Action replay 4 A1200
U822 Easy Calc Plus *
U823 Engineers Kit + Y
U824 Star View + Y
U825 Disk Manager III +Y
U827 Magic Menu 1.27 +Y
U828 Viewtek 1.05 *
U829 RDPrep * HD Uti
U830 New HP Drivers + Y
U831 Banner 1.4 + Y
U834 Backup * HD Uti
U837 Logicshop + tool octs
U840 Backdrops 1.0 *
U841 Videotitler 1.1 + Y
U844 ABCDir 3 *
U845 Snoopdos 2.0 *
U846 MSM * Sys Monitor
U848 Amigabase 1.31 + Y
U849 Mod Player + Y
U850 Safe Copy + Y
U851 Ncomm 3.0 *
U853 Andy's WB3 utilities
U854 X-Kopia +
U907 The little traveller +Y
U908 Wine making uti +Y
U968 Font farm 3 +Y
U976 Copiers unlimited +
U982 Musicbase +
U983 Desktop video +
U997/99 Iconsplus(3)+Y
U1004 Highway code +
U1014 OctaMed tutor+Y
U1015 Magic W/B +Y
U1016 Rush +Y Dir utility
U1017 Ambush + Y
U1018 Astro 22 v3.5
U1022 Dividend winner+Y
U1023 ARexx guide + Y
U1024/25 A1200 Uti (2)
U1026 ASI Video titles *
U1027 Relokick 1.4 A1200
U1029 ASI Fix disk 2 *
U1030 Maverick copier +
U1031 Mega monitor +
U1032 ASI audio magic5+
U1033 ASI W/B Tools *
U1034 ASI Multivision4 *
U1038 Gelignite fonts 4 +Y
U1039ASI MultivisionAGA
U1040ASI Audiomagic6+Y

Colour Clipart

CCA Maps (12) + Y
CCA Mammals (10) + Y
CCA Trees (7) + Y
CCA Insects (5) + Y
CCA Birds (7) + Y
CCA Flowers (13) + Y
CCA Reptile (4) + Y
CCA Fish (5) + Y
CCA Vegetables (4) + Y
CCA Dogs (10) + Y
CCA Fruit (3) + Y
CCA Horses (2) + Y
CCA Plains (2) + Y
CCA Dinosaurs (2) + Y
CCA Instruments (2) + Y
CCA Cars (1) + Y
CCA Cats (1) + Y
CCA Ships (2) + Y

Black & White Clipart

BCA Weddings (2) + Y
BCA Houses (2) + Y
BCA Religious (3) + Y
BCA WWII Aircraft + Y
BCA Kids (2) + Y
BCA Business (2) + Y
BCA Office + Y
BCA XMas (3) + Y
BCA Schools (2) + Y
BCA Babies + Y
BCA Sport (2) + Y
BCA Olympic + Y
BCA Medical (2) + Y
BCA Banners (2) + Y
BCA Butterflies + Y
BCA Borders (2) + Y
BCA Mac clips (2) + Y
BCA Teddy bears (2) + Y
BCA Golf humour (2) + Y
BCA Navy + Y
BCA Travel (2) + Y
BCA Alphabet (2) + Y
BCA Fish + Y
BCA Restaurant (3) + Y
BCA Astrology (2) + Y
BCA Buildings + Y
BCA Garden + Y
BCA Cats (2) + Y
BCA Dogs + Y
BCA People (5) + Y
BCA Food + Y

GAMES

G001 Compilation 1 + Y
G002 Compilation 2 + Y
G003 Compilation 3 + Y
G004 Compilation 4 + Y
G006 21 Games + Y
G008 Yelp + Y
G016 Super Quiz 2 + Y
G017 Air Ace 2 Y
G023 Doody +
G027 Fruit Machine 1 +Y
G029 Jigsaw +
G038 Diplomacy + Y
G039/40 C64 Games (2) +
G051 Dragon Tiles + Y
G054 Soccer League +
G056 F1 Challenge 3.0 +
G082 Monopoly 1 +
G083/84 Star Trek 1 +Y (2)
G098 Super Pacman 92+Y
G110 Fruit Machine 2 +Y
G113 Top of the league +
G114 Dr. Mario + Y
G115 Soccer Card +
G119 Battle Cars 2 +
G120 Growth + Y
G129 Tetren + Y
G187 Total War + Y
G188 No Mans Land +
G192 New Card Games+y
G194 Fruit Machine 3 + Y
G204 Tennis +
G220 Brat +
G225 Empire +
G236 Stock market game +
G245 Return to Earth + Y
G257 Chess Tutor + Y
G258 Ethos + Y Adv
G263 Airmania + Y
G274 Survivor + Adv
G298 Satu + Puzzel game
G300 Cricket 1 + Y
G303 Escape + Y
G306 Dominos + Y
G307 Trail Blazer + Y
G308 Games Gallore 11 +
G310 Airport + Y
G312 Roulette + Y
G316 Games Gallore 12 +
G317 Klaktris + Y
G320 Turbo Thrust+ Y
G322/25 Olempiad + (2)
G327 Games Gallore 13 +
G328 Mind Games + Y
G334 War + Y
G335 E-Type 2 + Y
G341 Battle star + Y Adv
G342 Delux Pacman 1.4+y
G343 Poker + Y
G345 Monopoly 2 *
G346 Shuffle Run + Y
G347 Tank Hunter + Y
G348/350 Nethack +(3)
G351 Asteroids 2 + Y
G353 Top Secret +
G354 Tetris AGA *
G355 Bomb Jacky + Y
G356 Fighting Warriors +y
G357 Crazy Sue 2 + Y
G358 Solitaire Golf + Y
G359 Tetris Pro + Y
G360 Turbo Thrust + Y
G361 Mad Bomber 2 + Y
G362 Wibble world giddy+
G365 Star Wars
G366 Battleships
G367 Boulderdash +
G368 Crazy Pipes 2 + Y
G369 Fruit Panic + Y
G370 Volly Ball + Y
G371 Fruit Machine 4 + Y
G372 Rubik Puzzle + Y
G373 Aztec Challenge +
G374 Premier Pics + Y
G375 Monaco + Y
G376 Desert Defender + Y
G377 Space Rescue + Y
G381 Army Miner + Y
G382/83 18th Hole (2) + Y
G384 Artillerus + Y
G385/87 Star Trek 3 (3) +
G388/89 Neighbours (2)+
G390 Scrabble + Y
G391 The winning post +Y
G392 Beetle + Y
G393 Numtris +Y
G394 Bop n Plop +Y
G395 Spectrum games +Y
G396/98 Klondike AGA*
G400 Klawz + Y
G401 Micro Market 1.2+Y
G404 Dinowarp + Y
G405 Road to Hell + Y
G407 Slime Game + Y
G408 Fatal Mission 2 + Y
G409/10 Mr Men Olympics
G411 3D Games 2 + Y
G447 System defender +
G449 Games galore 14 +
G450 Games galore 15 +
G462 Mexican massacre +
G467 Skidmarks +
G468 Grand prix manager+
G470 Firefly + Y
G471 Bondmine + Y
G473/74 Starbase 13 (2)+
G480 Popeye + Y
G482 Space invasion +
G484 Reversi 2 +
G492/93 M/ invaders AGA
G503 Excellent cards + Y
G504 Megaball AGA
G505 Gyves tetris + Y
G506 Fruit Machine 5 + Y
G507 Boulderdash 2 + Y
G508 Exit 13 + Y
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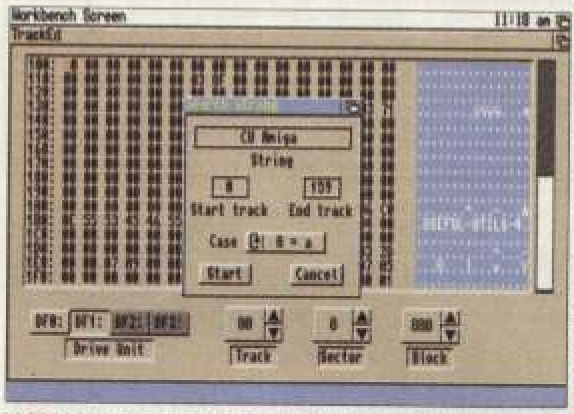
» TRACKED
Utility

Editors come in all shapes and sizes:text editors, ANSI editors, music editors, sample editors, and track editors. *TrackEd* is, not surprisingly, a disk track editor which allows you to directly read, edit and write sectors on an Amiga floppy disk. *TrackEd* can handle one sector at a time which is read into its buffer and then displayed on the screen in both hex and ASCII format. You can then edit the sector in either mode (hex mode for binary data and ASCII for text) and once you're finished, *TrackEd* will then save the sector back to disk. TrackEd supports all Amiga devices including both standard and high density disks and even hard disks.

TrackEd may not be the most capable track editor ever to grace the Amiga (Dave Joiner's 'Sectorama' possibly gets that prize!) but it's capable enough none the less. The Workbench 2.0 compliant user interface makes this a utility that is not only easy to use but easy to learn too. If you need a track editor but the thought of having to wade through checksums and hash values reduces you to a cold sweat then *TrackEd* could be for you.

Haven Computing, 15b Meeching Road, Newhaven, East Sussex BN9 9RL. Disk No. UT082

75%

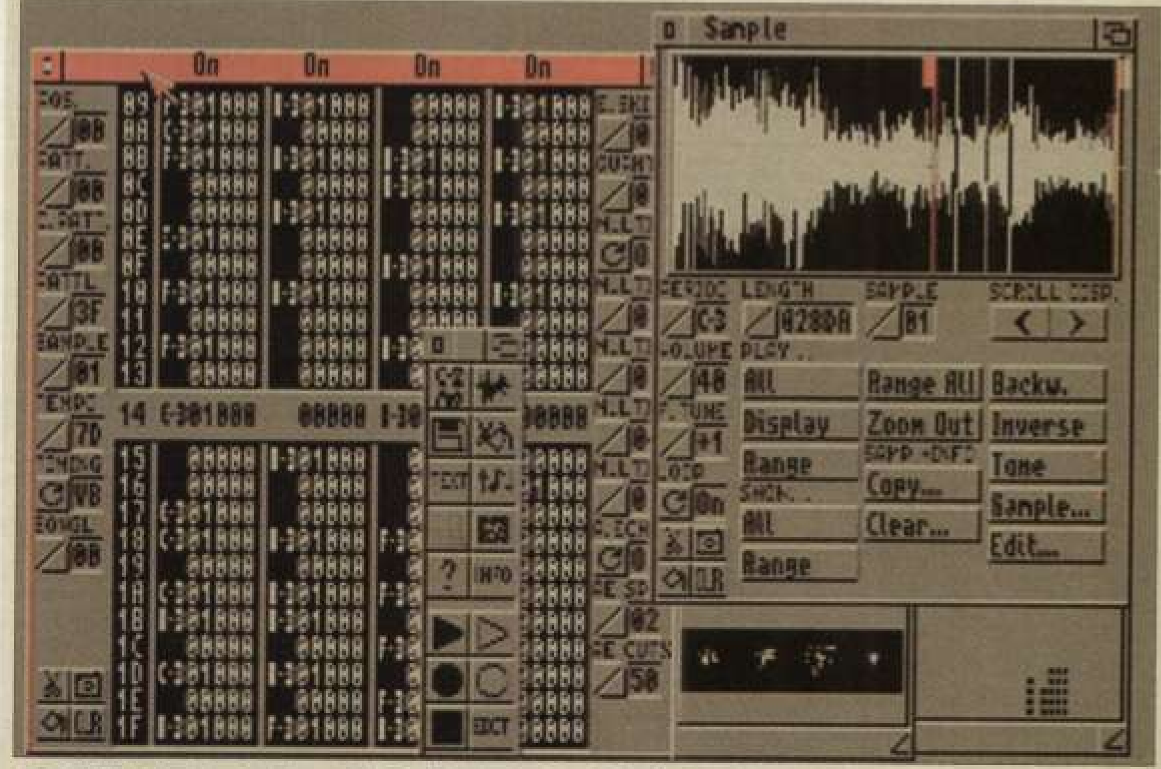

Workbench Screen
TrackEd
CU Amiga
String
Start track
End track
Case
Start
Cancel
DF0: DF1: DF2: DF3:
Drive Unit
Track
Sector
Block

BLITZ BLANK
screen blankers

Anyone who uses the same software for long periods of time is prone to screen-burn. This is when a single screen is displayed for so long that it burns its image permanently onto the screen. Screen blankers get around this problem by sitting in the background, waiting for you to stop moving the mouse or touching the keyboard. After a few minutes of inactivity, the blanker replaces the front screen with a simple animation, or maybe just blanking out the screen altogether, thus saving your screen from excess wear. *Blitz Blanker* comes with 12 blankers, including an aquarium, a fireworks display, melting pixels and a few others. You'll need an Amiga with Kickstart 2.04 or higher in order to run *Blitz Blanker*.

Available from: Ground Zero Software, 4 Chandos Road, Redland, Bristol, BS6 6TE. Tel: 0272 732978. Disk no. U318. Price: £2.00 including P+P.

80%


On
On
On
On
Sample
LENGTH
SAMPLE
SCROLL DISP.
All
Display
Range
All
Range
Range All
Zoom Out
Copy...
Clear...
Backw.
Inverse
Tone
Sample...
Edit...

QUADRA COMPOSER 2
tracker

Unlike most soundtrackers, *Quadra Composer* uses a modular style of presentation. In other words, each section of the program has its own window that can be open and closed, and moved around the screen at will. This has the advantage of giving you control over how the screen is laid out, and seems to be popular with many users, as more and more packages are turning over to this kind of system. Personally, I find it just makes the screen a lot messier, but then looking at the state of my desk, that's hardly surprising. It's a pretty good tracker, with plenty of features to keep it up to date with the competition, but it's probably the interface that's going to make or break it for most people. Give it a try.

Available from: Ground Zero Software, 4 Chandos Road, Redland, Bristol, BS6 6TE. Tel: 0272 732978. Disk no. U343. Price: £2.00 including P+P.

82%

Sample
LENGTH
SAMPLE
SCROLL DISP
All
Display
Range
All
Range
Range All
Zoom Out
Copy...
Clear...
Backw.
Inverse
Tone
Sample...
Edit...

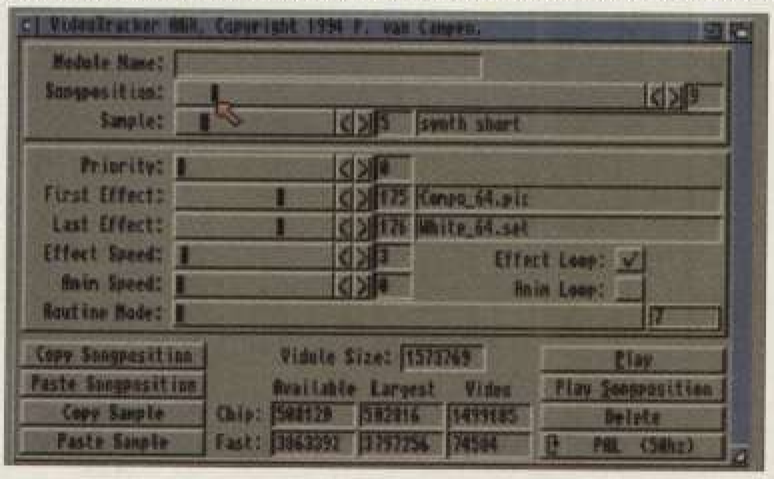
VIDEOTRACKER AGA 1.0
demo creator

You might have plenty of ideas for a kickin' demo, but if you're not a top machine code programmer, with an extensive knowledge of the Amiga's internal hardware, there's not much chance that your ideas will ever get past the drawing board. Well, not until now that is.

Videotracker is along the lines of *Democreator*, and Black Legend's forthcoming *Demomaniac*, but it's been specially geared towards making synchronised music and graphics demos. The basic idea is that you load in a Soundtracker module, and then hang various visual effects, pictures and animations around specific sections of the soundtrack, or even assign effects and animations to each sample.

For example, you could have a soundtrack that started off with a long synth sound, which you could accompany on-screen with a bit of wobbly plasma. Then, maybe you might have someone shouting out the letters 'T...E...K...N...O...'. You could assign a big picture of the letter T to the T sound sample, do the same for the other letters, and set it up so that as the letters were spoken, the relevant letters would flash up on the screen. With a bit of imagination, the possibilities are enormous, especially as you can use your own IFF animations and images.

Genlock users will also welcome the Genlock-sync option, which allows you to play your demo over any video source. Unfortunately this is a save-disabled version. The registration fee is $50 (US), for which you get a generous 12 disks of demonstration files, 1 disk with the fully working Video Tracker program, 2 disks of PD utilities and 1 disk containing the Routine Developer Kit and example sources. A non-AGA version of the program is also available.


VideoTracker AGA, Copyright 1994 F. van Campen.
Module Name:
Songposition:
Sample:
synth short
Priority:
First Effect:
Last Effect:
Effect Speed:
Anim Speed:
Routine Mode:
Effect Loop:
Anim Loop:
Copy Songposition
Paste Songposition
Copy Sample
Paste Sample
Vidule Size:
Available
Largest
Video
Chip:
Fast:
Play
Play Songposition
Delete
PAL (50hz)

Available from: Cynostic PD, Office 01, New Enterprise Centre, Little Heath Industrial Estate, Old Church Road, Coventry, CV6 7NB. Disk no. U0600. Price: £2.00 including P+P.

88%

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MIXED IMAGINE OBJECTS 2 - Various objects for the Imagine 2 raytracing package.
MIXED IMAGINE OBJECTS 3 - As above.
MIXED IMAGINE OBJECTS 4 - As above.
MIXED IMAGINE OBJECTS 5 - As above.
MIXED IMAGINE OBJECTS 6 - As above.
MIXED IMAGINE OBJECTS 7 - As above.
MIXED IMAGINE OBJECTS 8 - As above.
MIXED IMAGINE OBJECTS 9 - As above.
ALIENS CONFIDENTIAL - Alleged factual documents, interviews and stories about UFO's and Aliens. Files come from all over the world. Very chilling.
V CHESS 2.0 - Superb Chess game. Many useful features. Recommended for casual and expert players alike. -NOT A500-
SUPER LEAGUE 3.4 - Powerful football league database and statistics analyser. You can even set up your own league tables. Records fine detail information such as who scored which goal and after how many minutes. Brilliant programme.
QUADRA COMPOSER 2.0 - Music composing software. Noisetracker compatible. Uses a more friendly approach rather some of the more cluttered screens common with many others, but just as powerful. -NOT A500-
TURBO ICE HOCKEY - 2 Player Ice Hockey game. -NOT A500-
DINOWARP - Dinosaur quiz game.
DELITRACKER V13.7 - Music module player. Supports 50 different formats. All the well known formats and many of the more obscure ones too. -NOT A500-
REORG V3.11 - Disk optimiser. Speeds up disk operations (floppies or hard drives) by rearranging the data on the disk for optimum performance. -NOT A500-
ORK ATTACK - Protect the kingdom from the marauding Ork's. Loads of blood!!!!
POWER LOGO 1.3 - Logo programming language with Arexx support.
FULL MOON - Stunning new demo from Fairlight. -A1200 ONLY-
FATAL MORGANA - Superb original demo. Includes a tribute to MTV's Beavis and Butthead. -1200 ONLY-
(2 DISKS) **TEXTURES** - Texures for Real 3D 2 & Lightwave.
MT COPY - Disk copier that checks for viruses while it duplicates.
TELE TITLE 2 - Video titling. Lores version.
TELE TITLE 2 - Video titling. Hires version.
TELE SCROLL 1 - Video scrolling.
TERMINUS 2.0d - One of the top three shareware modem communications packages. Latest release.
LYAPUNOVIA V1.5 - Fractal creator. Similar to Mandelbrots, but not quite. Very good.
DELUXE GALAGA - Fabulous shoot-em-up with bonus levels, power ups, and sexy graphics. -NOT A500-
MILITARY CLIPART 1 - Large bitmap images, many are larger than the screen. Autoboots as a slideshow and mouse scrolls picture to see the entire clipart. Use with Dpaint and DTP.
MILITARY CLIPART 2 - As above.
MILITARY CLIPART 3 - As above.
MILITARY CLIPART 4 - As above.
MILITARY CLIPART 5 - As above.
MILITARY CLIPART 6 - As above.
MILITARY CLIPART 7 -As above.
MILITARY CLIPART 8 - As above.
MILITARY CLIPART 9 - As above.
MILITARY CLIPART 10 - As above.
TRONI-CAD - Schematic CAD package. Electronic circuit boards etc..
ESCAPE MOUNT DOOM - Animated Role Playing game.
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FINAL FRONTIER

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E60 **CODE MUNGUS** - Highway Code testing program. Strange name but a brilliant bit of software.
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E42 **GAS TURBINE ENGINES** - Cross section animations of an old and modern turbine jet engines.
E54 **STIRLING ENGINE** - Cross section animations of the Stirling engine.
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U303 **INVENTORY v2** - Stock control, staff wages database and general database all in one.
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U142 **FREE PAINT** - The best PD IFF paint proggy.
U208 **CYCLOPS** - Plasma picture generator. Colourful and weird effects.
U271 **POLYED** - Animation creator. Uses polygons to allows large animations on low memory Amiga's.
U190 **GATORS GRAFIX GALLERY** - Tips on how to produce professional logos.
U289 **MINI MORPH** - Picture warping and morphing programme. Supports 16 colour pictures.
U286 **KIDS PAINT** - Simple, easy and functional art package for youngsters.
U306 **ELECTRONICS CAD** - Schematic designer. PD demo version.
U211 **CAPTIONATOR** - Scrolling text video titler.
U187 **MOBED 2** - Sprite drawing and animation editor. For coders.
U154 **AUDIO ANIMATION** - Animation studio with onion skin facility. Sound samples can be assigned to any frame.
U54/U55 (2 DISKS) **VIDEO UTILITIES** - Collection of useful video titling tools.
U285 **sMOVIES** - Video titling tool. For adding scrolling text to videos. Text can scroll up or down and across the screen. Plus some other xtra fx.
U295 **MIXED IMAGINE OBJECTS** - Loads of Star Trek objects and military hardware objects for

CLIP ART

U236 - Photo copiers, Office, Men at work.
U230 - Food.
U224 - Sign boards, Star Trek, Christmas.
U223 - Sports, Transport, Work.
U221 - Anatomy, Buildings, Christmas, Holidays.
U220 - Animals, People, Places.
U218 - Cartoons, Construction, Religion, School, Weddings.
U100 - Teddy bears.
U98 - Easter, Christmas, Jungle Animals, Famous faces.
U95 - Zodiac signs, Computers, Symbols, Logos, Sport.
U251 - Babies, Furniture, Space, Skeletons.
U233 - Christmas.
U229 - Cars, Flowery decorations, Cupid, Hearts.
U227 - Palm trees, Party invites, Maps of Europe, Postage stamps.
U226 - Wild west, Crowds of people, Frames, Signs.
U225 - Fancy letters, Cars, Cute Animals.
U222 - Music, Silhouettes, Symbols, Teddy bears.

MUSIC TOOLS

U178 **COMPOSER** - Traditional music composing with notes and staves.
U314 **OCTAMED TUTOR** - comprehensive manual for strugging Octamed users.
U371/372 **DRUM KIT SAMPLES** - Countless drum samples, snares, bass, toms, claps, cymbals, etc..
U325 **OCTAMED V2.0** - The best PD music sequencer around. Quite complex, but well worth the effort.
U183 **PROTRACKER** - Another good music sequencer.
U256 **ST-05** - Sound samples and intruments for use with either U183 and U325.
U257 **ST-11** - As above.
U258 **ST-50** - As above.
U259 **ST-87** - As above.
U260 **ST-88** - As above.
U261 **ST-89** - As above.
U262 **ST-91** - As above.
U263 **ST-92** - As above.
U264 **ST-93** - As above.

DISK UTILITIES

U281 **D-COPY 3.1** - Powerful disk duplication software.
U215 **FREECOPY 1.8** - Duplicates 100's of game titles.
U283 **LOCKPICK** - Similar to Freecopy but supports some other different titles - around 450.
U158 **NOERRORS** - Formats hard drives and floppies with hard errors (physical damage to surface) and hides them so data will not be written or read from the bad tracks. Saves you money, useless disks can now be used.
U94 **MRBACKUP** - Hard drive backup software.
U327 **DISKSALV 2** - Corrupt data recovery. Undeletes files, validates disks, reads badly corrupt files and rewrites them, etc... -NOT A500-
U328 **MAVERICK COPIER** - Another powerful games copier. Well over four hundred games supported.
U329 **EPU HARD DRIVE STACKER** - Increases hard disk space upto 50% using special compression libraries which compress files written to the disk. -NOT A500-

MIXED UTILITIES

U291 **RELOKICK** - Downgrades your A500+, A600 or A1200 to Kickstart 1.3. Very reliable compatibility ratio when used to run many A500 only titles. Even works with many commericial games. Essential.
U301 **A-REXX MANUAL** - Extensive manual on the A-Rexx programming language. Many example scripts.
U206 **RACE RATER** - Horse racing predictor.
U294 **POOLS TOOLS** - Football pools predictor.
U323 **FOOTY** - Football league database. Presents various types of statistics, plus match predictions.
U316 **MAGIC WORKBENCH** - Give your Workbench a cosmetic face lift. Changes the icons and a choice of background patterns. -NOT A500, REQUIRES A HARD DRIVE-
U293 **PARBENCH** - Amiga networking software. Allows communications and control bewteen two connected Amiga (even CDTV) computers.
U353 **TERMINUS 2.0d** - Excellent modem communications software.
U300 **NCOMM 3.0** - Lastest version of this incredibly popular communications package. Very easy to setup. Great for beginners.
U267 **SPECTRUM EMULATOR V1.4** - Run Spectrum games on your Amiga. Load in software via a sampler. Games can then be saved to disk.
U241 **CANON PRINTER DRIVERS** - Bubble Jet drivers for the following models: CanonBJ30, CanonBJ10-20, CanonBJ300-300.
U239 **STAR PRINTER DRIVERS** - 9 and 24 pin printer drivers for the Star range of printers.
U103 **MESSYSID II** - Transfer files to and from Amiga DOS and PC MSDOS disks.
U313 **AGA UTILITIES** - Loads of utilities for A1200 owners. Includes a number downgrading tools.
U274 **CG FONTS COLLECTION VOL.1** - Scalable Compugraphic fonts for word processors and DTP that support this format. High quality.
U275 **CG FONTS COLLECTION VOL.2** - As Above.
U276 **CG FONTS COLLECTION VOL.3** - As above.
U308 **CG FONTS COLLECTION VOL.4** - As above.
U318 **BLITZ BLANKER** - Brill screen blanker written in Blitz Basic, includes source code. Comes with a variety of modules. Best used with a hard drive.
U368/369 (2 DISKS) **SCALA BACKGROUNDS** - Hi-res backdrops for use with Scala.
U163/164 (2 DISKS) **A64 PACKAGE** - Commodore 64 emulator. Run C64 games on your miggy. -NOT A1200-
U146 **AMIGA SYSTEMS CHECKERS** - Suite of Amiga system performance testers and diagnostic analysers.
U112 **AMOS WORD SQUARE SOLVER** - Locate those elusive words.
U111 **GOLFSCORE** - Golf score database. Keep a computerised record of your results.
U7 **GHOST WRITER** - Intro demo writer. Also include your own music modules.
U180 **BROWSER II** - Superb directory utility. For transfering files etc.. Editable pull down menus.
U138 **EDIT KEYS** - Keymap editor.
U269 **DART MACHINE** - Computer dart scoring.
U290 **CHARACTER GENERATOR** - Advanced Dungeons and Dragons character generator. Every rule is realised by the programme for character creation. Also will print out the character sheet.
U280 **LEMMINGS II HARD DRIVE INSTALLER** - Install Lemmings 2 on your Hard drive. -NOT A500, REQUIRES 1.5 MEGABTYES OF RAM-
U302 **AMOS NCOMMAND** - Design Workbench 2.0 style front ends for your Amos programmes. Saves as Amos source code. Save yourself hours of coding.
U307 **AMOS PRINTER ROUTINE** - Creates GFX printer printer routines for Amos projects.
U248 **NOAH'S BEGINNERS GUIDE TO THE AMIGA** -Tutorial for complete beginners. Based on the A500 but loads of universal information for all models. Also covers hardware like, modems, hard drives, and printers.
U240 **AMOS LESSON 1** - Easy Amos tutorial. Focuses on basic screen commands, giving many examples (interactive) on how they work and for what purpose they can be used for.
U173/174 **NORTH C** - Complete C programming environment.
U355 **POWER LOGO 1.3** - Logo programming language.

DEMOS -A1200 ONLY-

D153 **RETINA** - Energetic rave music with flashy effects. Turn down the lights!!!
D157 **MOBILE - DESTINATION UNKNOWN** - Spectactular vector demo.
D159 **LETHAL EXIT** - Long running vector based demo. Light sourced vectors and tunnels...
D160 **TROJAN - TECHNO TRACKS II** - Rave demo from the US of A.
D172/173 (2 DISKS) **ORIGIN** - This demo has everything. Wonderful visuals.
D149 **PLANET GROVE** - Very eye catching.
D158 **NOP AGA** - Little demo from Hungary.

DEMOS

D181 **FAIRLIGHT 242** - Twenty nine megabytes of graphics compressed onto one disk. Incredible. Cool rave demo. -A500+ & A600 USERS REQUIRE FAST RAM OR RELOKICK-
D161 **SANITY ARTE** - Who needs AGA with cool demos like this. A must.
D148 **STATE OF THE ART** - One of most graphically impressive music demos ever.
D140/141 (2 DISKS) **RSI TIME ZONE** - Awesome megademo.
D174/175 (2 DISKS) **NINE FINGERS** - Superb dance rave demo. From the creators of State OfThe Art. Incredible.
D171 **EXTENSION** - One of those demos you'll want to watch over and over again.
D111 **FRACTAL FRENZY** - Mandlebrot demo. Fast real-time calculations.
D90 **SESPOIR** - Pretty classy demo.
D77 **MELTED EXPERIENCE** - Recommended for all serious demo colectors.
D65/66 (2 DISKS) **SILENTS BLUE HOUSE** - Strange combination of a Thrust clone and loads of music tracks. V.good. -NOT A1200-

MUSIC DEMOS

M137 **DIGITAL DEBUSSY VOL 1** - Five haunting piano renditions of Claude Debussy. By Rob Baxter.
M138 **DIGITAL DEBUSSY VOL.2** - More piano suites.
M139 **CLASSIX** - Music of three famous composers. Handel, Bach, and Pachelbel.
M134 **RHAPSODY IN BLUE** - Popular jazz music. From the Galaxy chocolate advert!!!
M130/131/132/134 (4 DISKS) **THE A-Z OF C64 SONGS** - Hundreds of classic Commodore 64 tunes from games. Many from the top game music composers of that era. Great stuff.
M129 **TOCATA & FUGUE IN D MINOR** - Well known popular classical music piece - but no one seems to know the name? -NOT A500-
M125 **MUMBO JUMBO** - Decent music and intersting visuals. Things fly all over the place.
M122 **GOSPEL KARAOKE** - Sing a long to the words and sampled music.
M119 **TECHNO WARRIRORS** - Rave for over 24 minutes.

SLIDESHOWS

S88 **FORGOTTON** - Riveting fantasy artwork.
S87 **TERMINATION PICTURE SHOW 1** - Hand drawn characters from 2000AD and the DC comics.
S86 **CAT SLIDESHOW** - Digitised cute and fluffy kitties.
S85 **NAM SLIDESHOW** - Snaps from the Vietnam war.
S73 **GULF WAR SLIDESHOW** - What hardware was used in the conflict.
S67 **NAGEL SLIDE** - Hand drawn pictures of seductively dressed ladies.
S47 **HAM PICTURES 1** - Models in swim suits.
S99 **JURASSIC PARALLAX** - Many vicious dinosaurs.
S98 **SATURNE 93** - Well drawn artwork, from Manga art to fantasy art.
S91 **MANGA WORLD** - Needs no introductions, the cult japanese cartoons.
S92 **AKIRA** - More Manga pictures.
S100 **FERRARI AGA** - Fast sports cars. -A1200 ONLY-
S94 **NIGEL MANSELL AGA** - Nige in his Formula One racing days with Williams. -A1200 ONLY-
S93 **REVELATIONS** - One of the best hand drawn slideshows ever. Amazing attention to detail.

GAMES

G282 **MEGABALL AGA** - Superb arkanoid clone in 256 colours. A real quality game by any standard. -A1200 ONLY-
G288 **NUMERIX** - Excellent board game for 1 or two players. A hybrid of Tetris, Dominos, and Scrabble.
G273/274 (2 DISKS) **STARBASE 13** - Sci Fi graphic adventure. Uses point and click interface used by such games like Monkey Island.
G222 **CHESS GAMES** - 2 very well programmed chess games: GNU Chess -NOT A500-, and Chess 2.0 (for all Amiga's). Includes 10 top Chess tips on how to play succesful Chess.
G280 **BLACK DAWN** - 3D perspective dungeon game with an Alien Breed scenario.
G37 **SEALANCE** - Submarine wargame.
G183 **BOUNCE & BLAST** - Very playable platform blasting game. Brilliant cartoon sprites.
G192 **HELLZONE** - Shoot-em-up like R-Type.
G190 **FIGHTING WARRIORS** - 1 or 2 player martial arts combat game. Large well animated characters with numerous moves including a couple of special moves.
G225 **TOP OF THE LEAGUE** - Soccer management game.
G210/211 (2 DISKS) **TALISMAN** - Huge icon driven graphic adventure. -REQUIRES 2 MEGABYTES-
G212 **FRUSTRATION** - Text based adventure. Loads of depth.
G224 **OBLIVION** - Fast moving defender clone.
G226 **MORIA V5.4** - Massive RPG. Dungeons and a town to explore. Hours of play.
G229 **GIGER TETRIS** - Tetris with 256 colours. -A1200 ONLY-
G290/291 (2 DISKS) **GEORG GLAXO** - Amazing platform game from Germany.
G237 **BACKGAMMON** - Computer version of this board game. One or two players.
G241 **IMPERIAL WALKER** - Take control of an X-Wing fighter and stop the Imperial Walkers from reaching the Allied HQ. 3D Game.
G246 **WIBBLE WORLD GIDDY** - Amazing platform puzzle game similar to the budget Dizzy games.
G299 **HIGH OCTANE** - Overhead racing game for 1 or 2 players. Masses of features and best graphics in a PD racing game.
G236 **TETREN** - Tetris game with themed levels. Takes the theme one step further.
G271 **JELLYQUEST** - 3D Isometric puzzle game.
G168 **OTHELLO** - Good version of the board game. Computer player is a real tough customer.
G276 **THE GREAT ESCAPE OF BILLY BURGLAR** - Lovely little platform game. Help Billy escape from the spotlights.
G68 **INSIDERS CLUB** - Stockmarket game. Better than it sounds. Very polished addictive game.
G177 **CRAZY SUE II** - Very popular platform adventure game.
G35 **JAR** - Crystal Castles clone. An old arcade game a bit like Pacman with raised platforms. 3D isometric. A real cassic PD game.
G183 **TREASUE ISLAND** - Treasue search game for youngsters.
G286/287 (2 DISKS) **EXORCISM** - Sinister graphic text adventure in a haunted house.
G283/284/285 (3 DISKS) **KLONDIKE DELUXE AGA** - Fantastic card game, Each card shows a different 256 colour picture. Glamourous ladies.
G296/297 (2 DIDKS) **MOTOROLA INVADERS** - Shoot-em-up for AGA. -A1200 ONLY-
G254 **THE LAST REFUGE** - Entertaining medieval shoot-em-up.
G255 **AMOS CRICKET** - Cricket game.
G258 **SHANGHAI** - Oriental tile board game.
G257 **DELUXE PACMAN** - Great Pacman clone. Much improved over the original. Includes power up items besides the normal power pills.
G256 **BONDMINE #13** - Boulder Clone at it's best. A game not to be missed.
G268 **SLAMBALL** - Futuristic American football management game. Based on Speedball.
G269/270 (2 DISKS) **18th HOLE** - Awesome golf game.
G239 **RAID III** - Game produced using the Shoot-em-up construction kit. Superb graphic detail make it about the best PD game created using this designer. Looks a bit like SWIV.
G139 **CROAK** - Frogger clone. 2 player mode lets you race against a friend at the same time. Great laugh.
G142 **BATTLEMENTS** - Rescue Esmeralda in this Hunchback clone.
G158 **BRAIN BALL** - Look looking original puzzle game. Requires great skill, so it's pretty tough.
G240 **BILLY THE DRAGON** - Easy going cute blaster for kids.
G196 **CAG** - Produces graphic adventure games, no porgramming knowlege required.
G88 **21 GAMES** - Chinese Checker, Amigatration, Cosmoroids, Peg puzzler, Tic tac toe, Bally III, Backgammon, Up and down, Deluxe Hamburger, Kamikaze chess, Egyptian run.... And loads more...

IN CASE YOU DO NOT SEE A PARTICULAR TITLE YOU ARE LOOKING FOR, ENQUIRE OVER THE PHONE, AND WE WILL BE HAPPY TO TELL YOU WHETHER WE STOCK THE TITLE/S. THIS MAGAZINE ADVERT IS ONLY A VERY SMALL SELECTION OF WHAT WE HAVE AVAILABLE.

PHONE ENQUIRES (MON-FRI 9.00 AM TO 6.00 PM): 0272 741462

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PD PRICES ARE PER DISK - NOT PER TITLE.
NUMBER OF DISKS (IF MORE THAN ONE) IS SHOWN
IN BRACKETS.

GAMES

G010 - POM POM GUNNER - Great graphics in this operation wolf style shoot em up.
G011 - AIR ACE 2 - A great World War 2 shoot em up.
G013 - THE REVENGE - Play ED-209 from Robocop in this violent shoot em up.
G015 - MEGABALL - A game that has received excellent reviews.
G016 - SIMPSONS - Televisions wacky family brought to life in this shoot em up construction kit game.
G021 - MASTER OF THE TOWN - The aim of this game is to cause as much damage as possible.
G026 - DOWN HILL CHALLENGE - Good ski simulater.
G028 - PIPELINE - Classic game but too fast on A1200/A4000 due to superior processor.
G039 - SMURFHUNT - Plenty of gun power in this shoot em up.
G043 - WIBBLE WORLD GIDDY - A superb platform game. This is one of the best public domain games ever.
G047 - SUPER PAKMAN - If you like Pak games, then get this!!! The best version to date.
G048 - NEIGHBOURS - (2 disks) An excellent graphic adventure, probably the best ever in PD.
G049 - FIGHTING WARRIORS - Budget version of Streetfighter 2 with good graphics.
G050 - BOMB JACKY - The spectrum classic with vastly improved graphics and sound.
G055 - TEXAS CHAINSAW MASSACRE - Inspired by a true story.
G056 - 18 HOLE GOLF - The first ever public domain golf game. Great fun. (2 disks)
G057 - SPACE INVADERS 2 - A revised version of the classic game.
G059 - AMOS CRICKET - A good cricket simulater written in Amos.
G060 - TRON 2 - If you liked the original, then you can't miss this update. Faster and improved presentation.
G061 - ESCAPE - The aim of this excellent game is to run over tiles pushing specific ones down to open gates which allow you to reach the exit. Do it within a time limit to progress.
G062 - DR. MARIO - Similar to a NES game of similar name but better graphics.
G064 - DEATH BINGERS IN SPACE - A Xenon style shoot em up.
G065 - ZOMBIE APOCALYPSE - Good fun with lots of blood and guts.
G066 - STARIANS - Bizarre platform game.
G067 - SUPER SKODA CHALLENGE - A good game for up to four players with track editor etc.
G068 - PREMIER PICKS - Very unique football management game, very well presented.
G069 - BILLY BURGLAR - Dodge lights to escape from prison.
G070 - AMIGABOY - The n game Tetris is widely regarded at its best on the Gameboy. It has now been perfectly converted, with exact visual representation.
G071 - ACT OF WAR - A game of similar style to risk.
G073 - PARACHUTE JOUST - Guide the skydiver to the ground.
G074 - CARD SHARP - Various card games.
G075 - JEWL - A brilliant game.
G077 - JELLY QUEST - This game by David McGuire was described by Amiga Power quote "It's a superior brand of PD puzzle game, and its looks can only be described as - dead lush!" It went on to receive a 4 out of 5 star rating.

UTILITIES

U001 - THE ULTIMATE BACKUP DISK - All the very best public domain copiers including DCopy, Tetracopy and XCopy.
U013 - BUSINESS CARD MAKER - A utility that can give professional results for use with any printer.
U021 - SYSTEM X - A telephone directory on disk. It even dials the number!!!
U136 - 600 BUSINESS LETTERS - Over 600 letters of basic format ready for quick and simple modification in any word processor.
U139 - PRINTER DRIVERS DISK - An excellent selection of drivers to get your printer working perfectly.
U140 - LABEL MAKER - Excellent utility allowing you to make your own disk labels. We have added several fonts to give you more design options.
U153 - MULTIPLAYER - Can play virtually any type of music module.
U167 - WINDOWBENCH - A replacement for Workbench V1.3 in the style of Microsoft Windows.
U168 - GAME TAMER V2.2 - Loads of cheats (over 250) for use in many top games.
U176 - UNDERSTANDING AMOS - A very useful learning aid.
U178 - AGRAPH - Create all kinds of pie charts, bar charts and line graphs.
U179 - CLI TUTOR - Loads of hints and tips.
U180 - DISK OPTIMISER - Speeds up loading by up to 15 times.
U181 - FORMS UNLIMITED - Create your own invoices and other forms with this neat utility.
U183 - MAGNUM - Create your own disk based magazine.
U184 - EDWORD - Excellent text editor.
U185 - POOLS PREDICTION - If you need more help (or money) try this disk.
U186 - VMORPH V2.0 - Excellent utility that allows you to create morph/warp animation. Requires 1MB.
U187 - THE MENU DISK - If you are interested in creating your own compilations etc. then get this disk. Its perfect for added presentation.
U188 - CLUB LEAGUE - A utility that allows you to edit and keep track of your teams division and league status.
U189 - SCREEN BLANKERS - A disk packed with screen blankers.
U190 - THE LITTLE OFFICE - One of the best small business programs available at the moment. Very popular.
U191 - VOICE CLI V5.5 - This utility allows you to control CLI with speech.
U192 - ACCOUNT MASTER - Written in Amos this is a very popular business utility of excellent quality.
U193 - SOFTWARE LISTER - This program is designed to keep track of your software collection.
U194 - DISKPRINT V3.5 - An integrated database and disk label printing utility.
U195 - RACE V1.6 - A disk that will work out the chance of a horse winning a race.
U196 - DRAW MAP V4.1 - There are two versions, this is the 1MB version. It allows you to create 2D and 3D maps. Quote U296 for 2MB version, which comes on 2 disks.
U197 - FOOTBALL LEAGUE EDITOR V1.1 - As soon as the results come in, you can monitor your teams latest position.
U198 - GOLF SCORES V1.8 - It can record the results of every round you play, store them and give an overall electronic score.
U200 - AMICASH BANKIN - If you have a small business, this program is the best of its nature and highly recommended.
U201 - PUNT PROGRAM - Another prediction aid for the horses.
U202 - MONEY MANAGEMENT - Home accounts package capable of handling up to 12 different accounts.
U203 - EASY CALC V1.0 - This spreadsheet is designed to be both very user friendly and fast. It has an excellent built in help system.
U204 - KEYBOARD TRAINER V1.1 - Best public domain typing tutor available at present.
U205 - M-CAD - Computer aided design program.
U206 - NO ERRORS - Hides the hard errors on disks making all your corrupt disks usable once again.
U208 - 203 UTILITIES - The most utilities ever available on a single disk.
U209 - UNDELETE - This utility allows you to get back stuff that was accidently deleted from disk.
U210 - JOYSTICK TESTER - A brilliant joystick testing program.
U211 - RED SECTOR DEMO MAKER - A 2 meg version of the most popular utility ever!!! Create stunning demos/megademos/intros. The special thing is that it has been modified to work with the A500+ and even better the A1200.
U212 - AIBB V5 - A good diagnostic program.
U213 - SYS INFO V3.11 - A disk that will let you know the technical status of your machine.
U214 - ENGINEERS KIT - A diagnostic disk, specially suited for engineers etc.
U215 - DISK REPAIRERS - Will allow you to try and make all your unusable disks work again.
U216 - AMIGA DIAGNOSTICS - Solve thousands of amiga problems with this diagnostics disk.
U217 - LAST WILL AND TESTAMENT - Write your own will.
U218 - MUSIC BASE UTILITY - Store your record/video collection.
U219 - ERROR INFO - Gives you a list of all amiga error codes and their meanings.
U220 - PC TASK V2.02 - IBM PC emulater it allows you to run the majority of PC software with no additional hardware. Now supports VGA, EGA, CGA and MDA. (DV)
U222 - REPAIR-IT 3 - Contains a selection of disk and hard drive repairing utilities. Excellent for saving that vital file.
U224 - SPECTRUM EMULATER - This is the best and latest version of the most popular emulater for the amiga. There are 68020/030 versions for new AGA amigas.(2 disks)
U225 - STOCK ANALYST - This is a technical analysis and securities tracking program which calculates when to buy and sell shares.
U226 - ASTRONOMY V2.0 - A menu driven astronomy program that calculates information about the Sun, Moon and planets. Help disk.
U227 - MING SHU CHINESE ASTROLOGY - Will create horoscopes in seconds. The complete aid.
U228 - COLOURED ICONS - Transfer your disks into colourful, well presented works of art with this collection of icons.
U229 - KIDS PAINT - An art package simplified for the younger amiga owners.
U230 - STAR VIEW - This program is designed to show graphically the positions of the stars and planets from any part of the earth.
U231 - AQUARIUM - Turns your screen into an eye catching fish tank.
U232 - OCTAMED V2 - Latest PD version of the famous music package.
U233 - NUMPAD FOR A600 - A program that makes the A600 think its got a numeric keypad.
U234 - ADDRESS PRINT V3.1 - Very useful if you make regular postal correspondence.
U235 - IFF BOOT - Displays a picture whilst your hard disk boots up.
U236 - BETTER BENCH - New workbench replacement.
U237 - PAY ADVICE ANALYSER - A very useful program for keeping track of pay, tax and national insurance.
U238 - CANNON PRINT STUDIO - Got a Cannon printer? This disk is essential for brilliant results.
U239 - FANCY PRINTING DISK - Contains Banner, Graph Paper V1.2 and Disk Print V3.5
U240 - BBASEIII - An easy to use versatile, yet fully featured database. Greatly enhanced successor to bBaseII.
U241 - ADM V1.01 - Flexible address database with loads of great features.
U242 - LITTLE TRAVELLER V1.1 - This utility shows a world map and allows you to select any country for travel information. It then zooms in giving a close up map with more information.
U243 - BANNER MAKER - Create spectacular printed banners.
U261 - GRAPHICS - Create stunning visual effects.
U262 - 3D GRAPHICS - Several 3D modelling and ray tracing programs.
U263 - DEVELOPER - Contains the official Commodore developer kit for the Amiga.
U265 - PROTECTION - Keep unwanted users from playing with your Amiga - Lock files with passwords.
U266 - PARBENCH - Link up two Amiga's and communicate with each other.
U267 - VIEW TOOLS - Includes a family tree program, a British Telecom database and a disk catalogue utility.
U269 - TRONICAD V1.0 - A program that lets you design electronic circuit boards.
U270 - INSCRIPT V1.1 - Produce video titles including fully editable text entries.
U271 - UDRAW V1.0 - Provides a mechanism for the rapid drawing of bitmap graphics.
U272 - NCOMM V3.0 - A communications program. Has had some good reviews.
U274 - EDPLAYER - Gives all the features of a compact disc player.
U276 - SPACE PROJECTION - An aid to studying the Galaxy.
U277 - DIRECTORY UTILITIES - Highly recommended programs, designed to make CLI and Shell tasks virtually obsolete.
U279 - FIM V2.2 - An intro maker with IFF imports.
U280 - GRINDER - Complete graphic conversion package. Supports GIF, IPEG, PCX, TARGA, TIFF, HAM-E, and many others including several for the Atari ST.
U281 - IBeM EMULATOR V1.05 - Another PC emulator.
U282 - GENEALOGIST V3.04 - A database specialised for keeping track of a family tree.
U283 - TEXT ENGINE V4.1 - Sent direct from the author Nicholas Harvey, this excellent program has all known bugs fixed. This is by far the best public domain wordprocessor. Features include a 36,000 word spell checker.
U284 - VIDEO PRODUCTION - A disk that is packed full of video oriented programs.

AGA

A019 TO A023 - WEIRD SCIENCE - Excellent quality pictures. (5 disks - available separately)
A024 - FIT CHICKS - A collection of girly pictures for the A1200 only. (2 disks)
A025 - FREAKS BODY SHOP - A small selection of girly pictures.
A030 - FERRARI PICTURES - Pictures of a new model from the worlds most exotic car maker. Good 256 colour pictures.
A036 - NIGHTBREAD - Many pictures drawn in 256 colours. (2 disks)
G042 - AGA TETRIS - Controlled with the cursor keys, this excellent conversion of probably the most addictive game ever is now available with 256 colour graphics.
G082 - AGA CHESS - An excellent game but you will need 4mb of ram to get it to work!!!
U001 - ULTIMATE BACKUP DISK - This compilation includes DCopy V3.0 which is probably the only copier that works successfully on the A1200/A4000.
U123 - WORKBENCH HACKS - Many useless special effects for workbench V3.0
U118 - MORE WORKBENCH HACKS - Guess what?
U255 - WB V3.0 INSTALL - If you need to install your hard disk then you need this.
U256 - A1200 DEGRADERS - An essential purchase for AGA owners. Includes Fake Fast Mem, The Degrader, Diskstart, Kill AGA V2 and Helpful hints.
U257 - VIEWTEK V1.03 - An essential purchase allowing you to display AGA graphics.
U258 - HDMEM - This utility allows your AGA machine to use your hard disk as virtual memory. If you've got a 80mb hard disk then you can have 80mb ram. Requires FMU, MMU etc.
D181 - TEAM HOI PLANNER GROOVE - This was the worlds first ever AGA megademo.
D195 - PANTARHEI - A new AGA megademo. With amazing sound, graphics and colours.
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U287 - ANDYS WB3 UTILS - A collection of utilities written specifically for AGA machines.
U288 - NFA A1200 UTILS - This compilation includes the marvellous DCopy V3.1
G083 - MOTOROLA INVADERS 2 - An AGA space invaders clone with an amazing heavy metal soundtrack. Fast paced arcade action. (2 disks)
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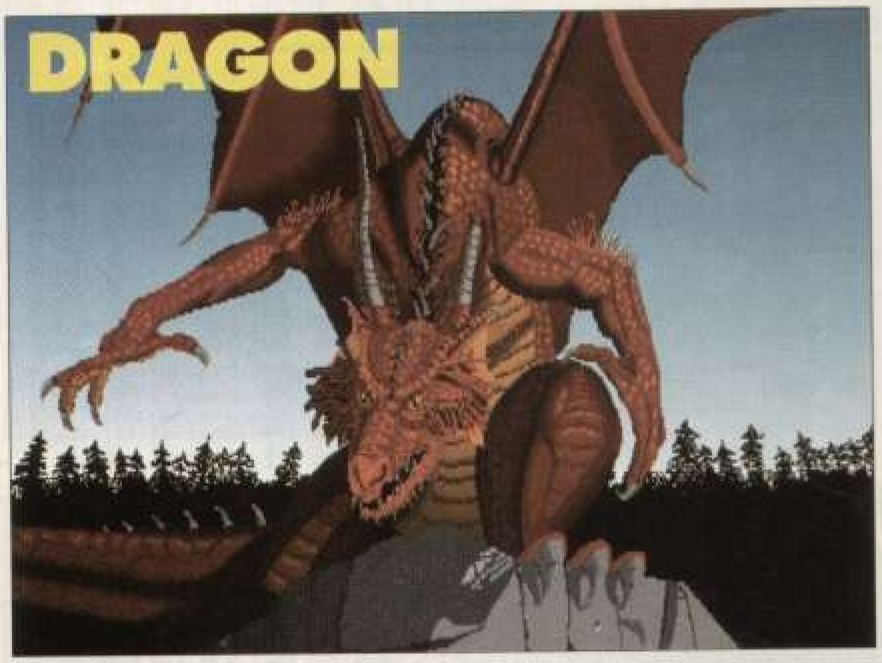
ART GALLERY

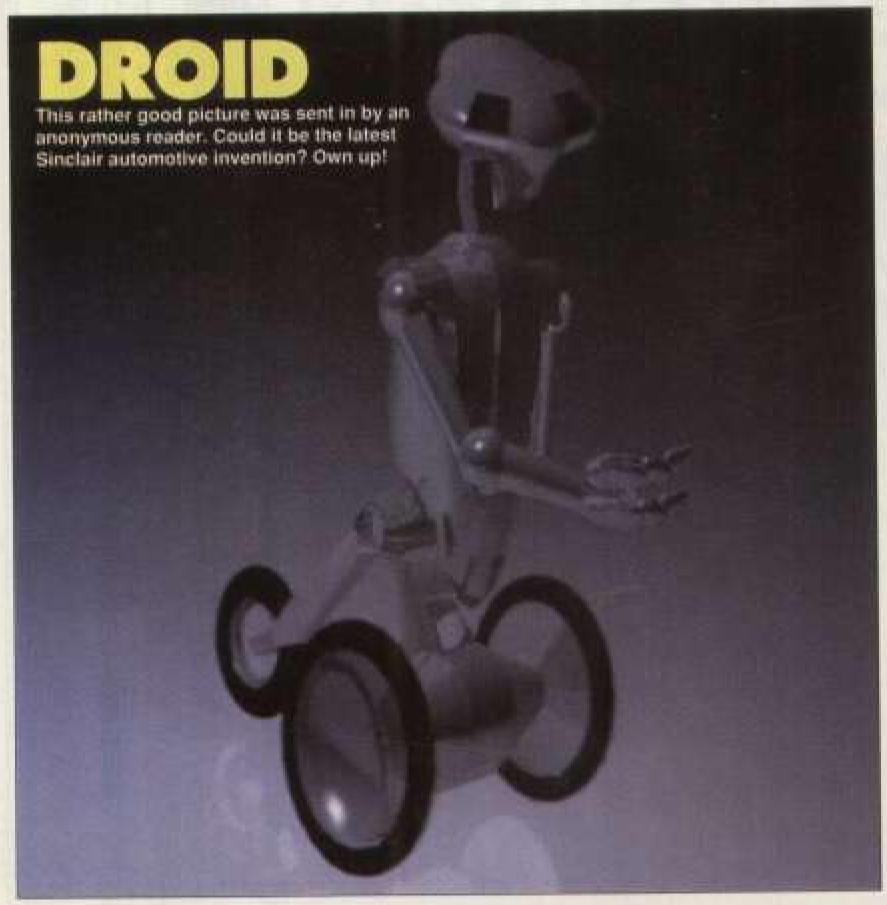
Welcome to this month's selection of Vangoughs, Degas and Renoirs... well not quite, but you never know do you?

DRAGON



This imposing creature was drawn by Antony Miguel of Dumfrieshire on his A1200 in 256 colours. And it only took him two months!

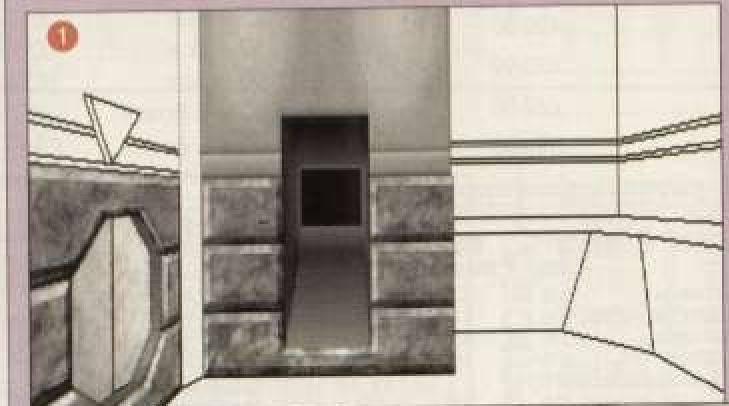
DROID



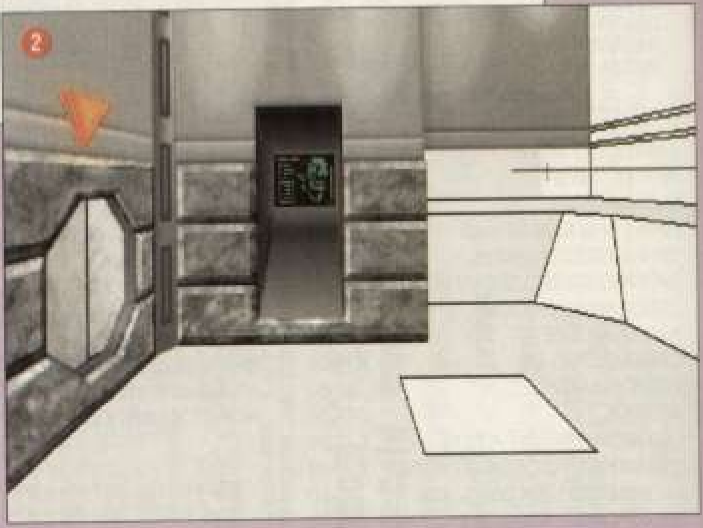
This rather good picture was sent in by an anonymous reader. Could it be the latest Sinclair automotive invention? Own up!

CHAMBER

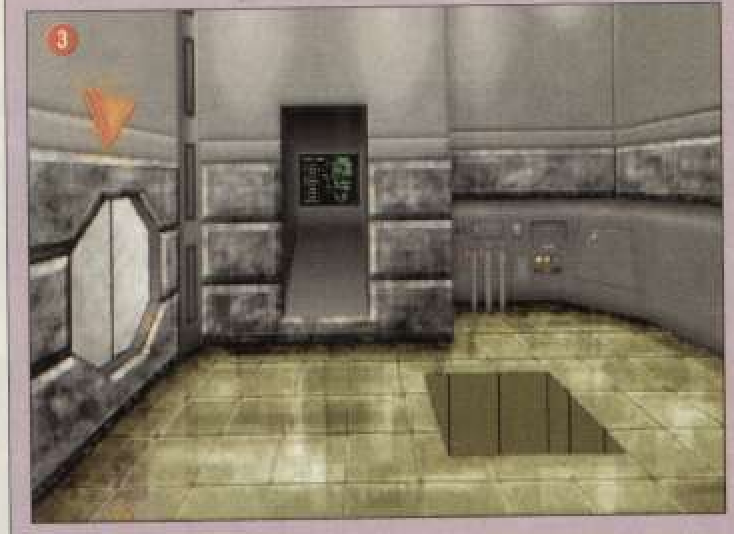
This picture was created using a combination of *Brilliance* and *DPaint IV AGA*, by Richard Whittell of Warwickshire.



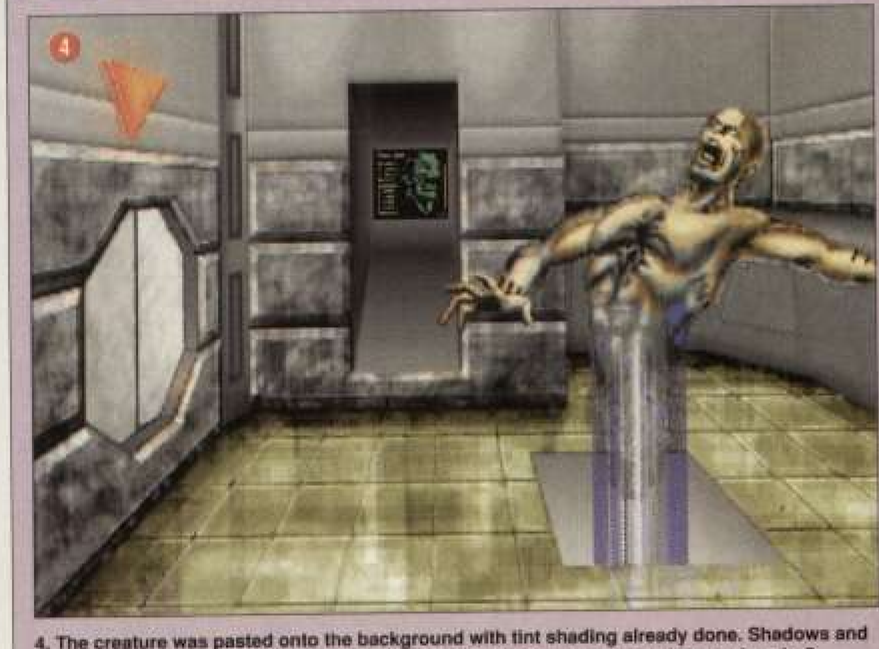
1. Richard started by drawing the creature on paper, finally scanning it onto the Amiga in hi-res 16 colour greyscale.



2. He then drew the chamber in free-hand and started on the detail of the walls.



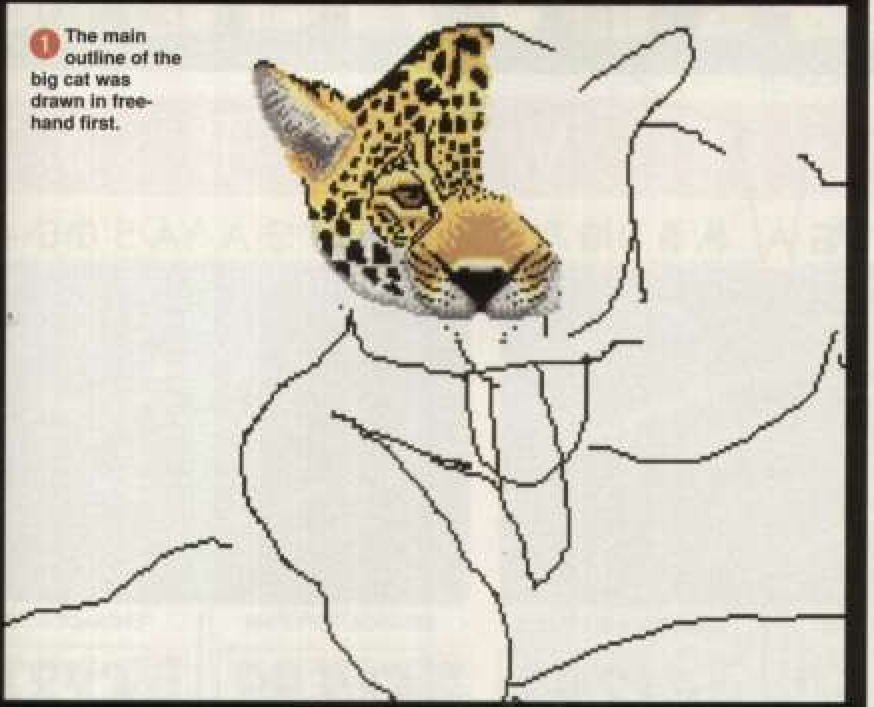
3.This is the finished background image with the back of the room shaded darker than the foreground and colour highlighting on the walls.



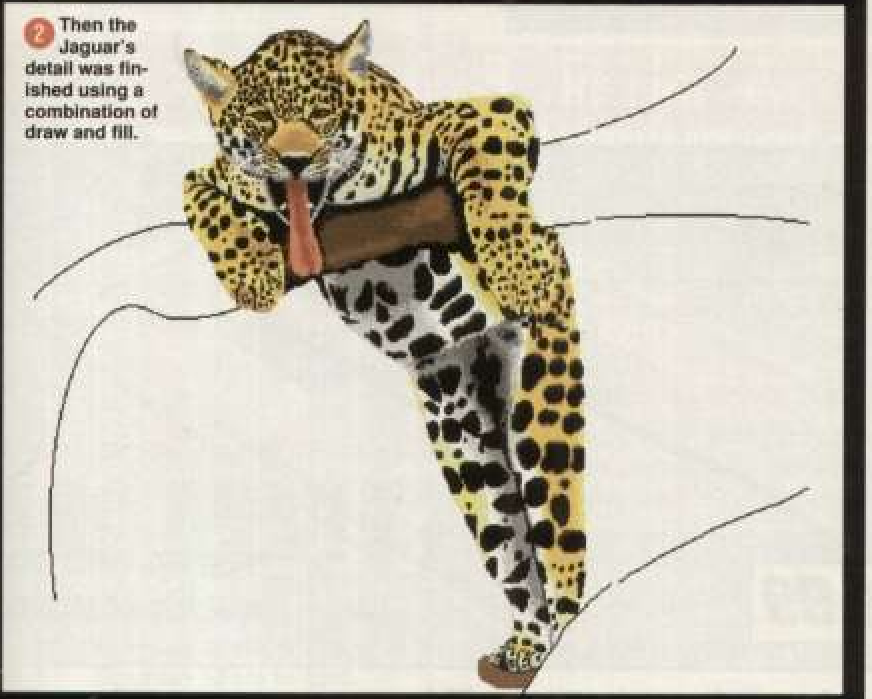
4. The creature was pasted onto the background with tint shading already done. Shadows and the light beam were added to complete the picture. He doesn't look too happy, does he?

JAGUAR

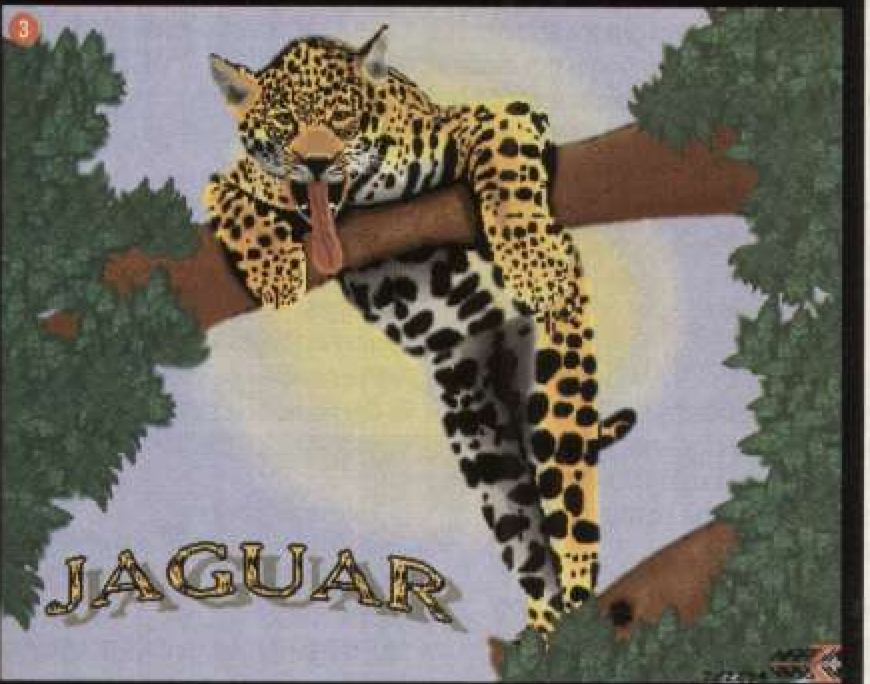
Martain Edwards of Glamorgon, drew this great image of the feline persuasion on his AGA machine.



① The main outline of the big cat was drawn in free-hand first.

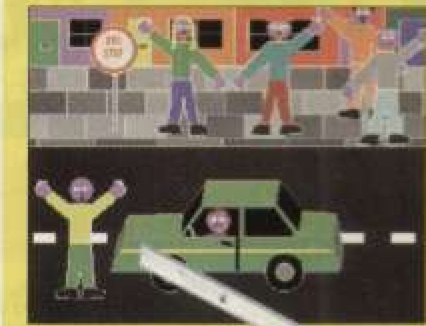


② Then the Jaguar's detail was finished using a combination of draw and fill.



3. Finally the background was added and smoothing was used to tidy up the image.

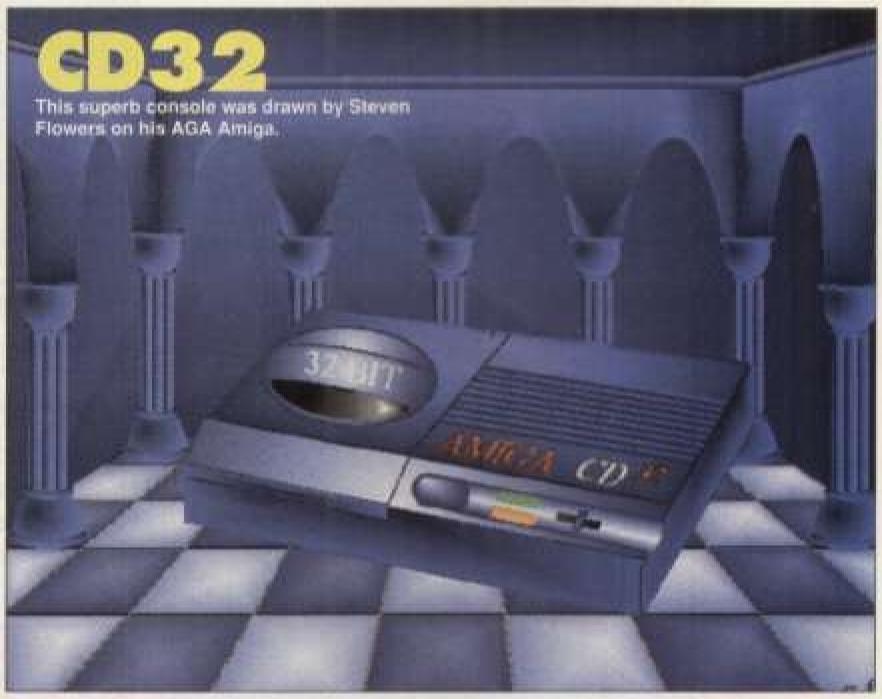
CASTROPHE CORNER



I'm tired of kicking all those work-shy slackers around the office, so I thought I'd share this excuse for artwork with you. Call that art? It looks like something my pet pigeon did in the corner. How do those people manage to stay up in the air and walk along the street at the same time? It's just amazing. Interesting hairdos. Not. It's more like gingerbread man rave meets playschool. As for the driving, I don't know who gave this young man driving lessons but maybe he should try looking through the windscreen. This type of art has a dangerous sublimal effect on people. After looking at this picture, I managed to invent a new type of torture involving my steel ruler, six plastic cartons and some masking tape. Vamp was impressed, but I don't think Tony Horgan was too happy. But least said soon is mended. Unlike this picture.

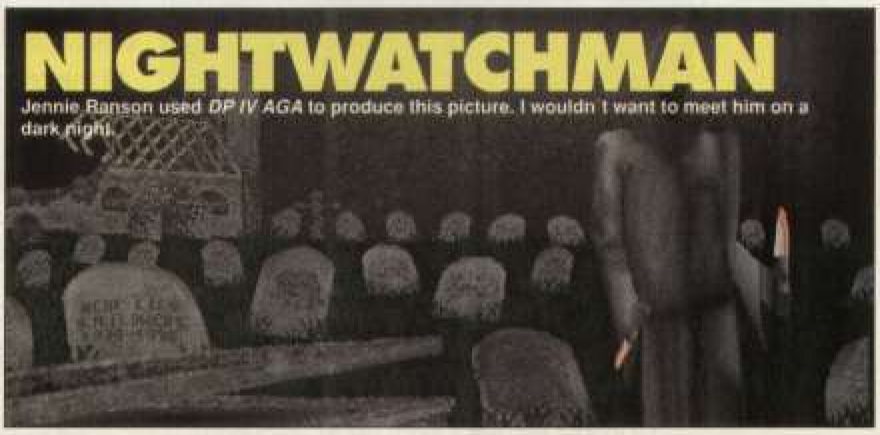
CD32

This superb console was drawn by Steven Flowers on his AGA Amiga.



NIGHTWATCHMAN

Jennie Ranson used *DP IV AGA* to produce this picture. I wouldn't want to meet him on a dark night.



CU AMIGA SPECIAL

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So why upgrade your memory? Probably because a memory upgrade is the most versatile enhancement you can make to your Amiga. Apart from the fact that you need it to run the more powerful Amiga software there are many extra benefits too. You can use some of it as a RAM disk, just like a super-fast extra floppy drive. This means you can avoid the cost of a second floppy drive or hard disk. Some software that claims to need a hard disk will run on your Amiga from a RAM disk. A print spooler can save you time waiting for your printer to finish printing before you get on with your work, use your new RAM instead of upgrading your printer or buying an expensive buffer.

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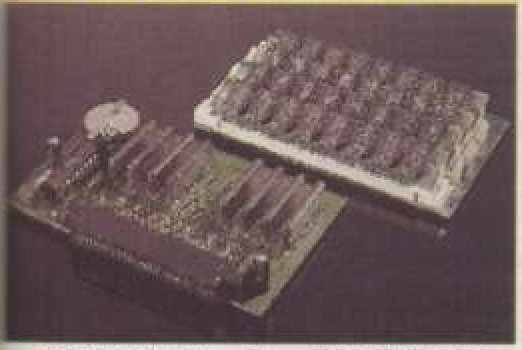

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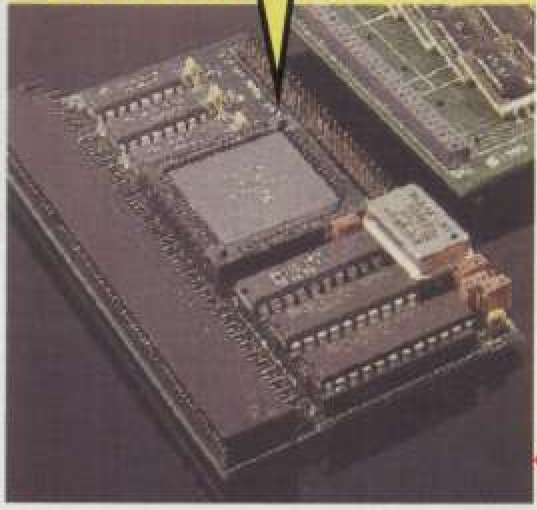

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☐ ART5-2 MEN (2 disks)
☐ ART6-2 WOMEN (2 disks)
☐ ART7-2 KIDS (2 disks)
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☐ ART9 OFFICE
☐ ART10 STUDENTS
☐ ART11 SALETIME
☐ ART12-3 XMAS (3 disks)
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☐ ART15 CATS
☐ ART16 SILHOUETTES
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☐ ART19-2 SPORT (2 disks)
☐ ART20 OLYMPIC
☐ ART21-2 MEDICAL (2 disks)
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☐ ART23 DECORATIVE
☐ ART24 WACKY
☐ ART25 HOLIDAYS
☐ ART26-2 BANNERS (2 disks)
☐ ART27 NOUVEAU FLOWER
☐ ART28 BUTTERFLIES
☐ ART29-2 FOOD (2 disks)
☐ ART31-2 BORDERS (2 disks)
☐ ART32 MAC CLIPS
☐ ART33 HORNBACK
☐ ART34-2 TEDDY BEARS
☐ ART35-2 VANITY FARE
☐ ART36 HALLOWEEN ART
☐ ART37 SHOWTIME
☐ ART38 VEGETABLES
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☐ PDWB WITH DRIVER
We'll install a driver on the version of Workbench you request, and send a full working copy with driver installed. Ready to use... all just £5.00 + P&P

A1200/A4000

☐ 3096-10 BAD BOYZ AGA
☐ 3175 UCHESS AGA 4 MEG
☐ 3209 WB3 RAINBOW
☐ 3211-5 WEIRD SCIENCE
☐ 3213-9 JPEG AGA IMAGES
☐ 3225-6 SUPER HAM PIX
☐ 3286 HOI GA MEGADEMO
☐ 3287 A1200 TETRIS
☐ 3288 A1200 VIRUS KILLERS
☐ 3289 A1200 UTILITIES
☐ 3293 PCX DATATYPE
☐ 3355 NEW WB3 KILLERS
☐ 3356 A1200 DEGRADERS
☐ 3403 MORE WB3 HACKS
☐ 3405 WINDBLENDER
☐ 3418 NPA A1200 UTILS
☐ 3419-2 FIT CHICKS
☐ 3422 RETINA BURN
☐ 3423-2 NIGHT BREED
☐ 3425 FREAKS BODYSHOP
☐ 3428 ANDYS WB3 UTILITY
☐ 3429 PLASMA CLOUDS 256
☐ 3432 ACTION REPLAY IV
A freezer cartridge on disk. IT WORKS
☐ 3436 JPEG UTILITIES
☐ 3465-2 SPECCY Emulator
☐ 3500 HD MEM (Req MMU)
☐ 3501 HOIS 2 MEGADEMO
☐ 3530 QUICK GRAB AGA
☐ 3556 PANTA RHEI AGA
☐ 3554 PC TASK 2.03
☐ 3610 LYAPUNOVIA AGA
☐ 3620-2 BODYSHOP 4
☐ 3627-2 Motorola INVADERS 2
Amazing AGA Space Invaders game
☐ 3678 CHROMAGIC MUSIC
☐ 3687 TMAP DEMO
☐ 3688 JPEG DATATYPE ETC
☐ 3693 MANDLEMANIA 4 AGA
☐ 3789-2 BODY SHOP 5 AGA
☐ 3795 XANADU AGA
☐ 3796-2 FIT CHICKS 3 AGA
Unreal lovely ladies. Ooh La La!!
☐ 3798-2 FIT CHICKS 2 AGA
☐ 3802 EMPTY HEAD AGA
☐ 4001 FRENCH DEMO
☐ 3888 MEGA BALL AGA
Stunning new AGA version of Break-Out. WOW!
☐ 3800 VIEWTEK 2.0
☐ 3751 FERRARI AGA SLIDES
☐ 3697-2 ASI AGA FIX DISKS
☐ 4005-3 KLONDIKE AGA
☐ 3822 MAND 2000 DEMO
☐ 3828 AGA VOLCANO
☐ 3831 CHANNEL Z MAGAZINES
☐ 3833-4 MAGNA AGA PICTURES
☐ 3838-2 COMPLEX ORIGIN
Unreal introduction to an amazing Mega demo
☐ 3843-2 STAR TREK PICTURES
Impressive AGA Star Trek Slides
☐ 3853 IT SMELLS LIKE Chanel No. 5
Amazing new A1200 Megademo
>>ask for our aga list when ordering<<

WB3 SOFTWARE

DPI Disks cost £3.50 each
☐ DP11 WORKBENCH 3
☐ DP12 A1200HD INSTALLER
☐ DP13 HARD DISK PREP
☐ DP14 PRINTER DRIVERS
☐ DP15 ENGINEERS KIT AGA
☐ DP16 EXTERMIN8 AGA
☐ DP17 CRACK'N'COPY AGA

COMPATIBILITY!
All disks should work on all available Amiga's unless otherwise stated. "AGA" means it only works on A1200/A4000

LATEST PD

☐ 3555 TALENT MEGA DEMO
☐ 3556 PANTA RHEI AGA
☐ 3557 SPACE INVASION
Brilliant Space Invaders game, an all time classic
☐ 3558 SUPER VIEWER 2.4 Picture viewer
☐ 3559 POOLS WIZARD JNR
☐ 3560 KIDS DISK 2
☐ 3561 ENTITY GAME
☐ 3562 MUSIC BASE UTILITY
Store your record, CD Video and game collection in this great database
☐ 3563 ROAD TO HELL
The best top view racing game available. Wicked!
☐ 3564 SPECTRUM EM 1.7
The Spectrum Emulator you can load games from cassette through a sampler
☐ 3565 MUGSY HIRED HOOD
☐ 3566-2 HIS MASTERS NOISE
Hundreds of music tracks but only for ks 1.3
☐ 3568 SCREEN GRABBERS
2 Screen grabbers that support AGA
☐ 3569 MICRO MARKET GAME
☐ 3570 RUMMY
☐ 3571 WILLY WORM
☐ 3572 SIMON
☐ 3573-2 18th HOLE GOLF
2 disk golf game
☐ 3575 LEMMINGS NIGHT OUT
☐ 3756 D COPY 3.1
Very powerful disk copier features include, Format Dos copy 1,2 & 3, Nibble etc. Its the best PD copier
☐ 3577 PRINTER PAL V1.0
A handy printing utility
☐ 3578 PRINT A CARD V2
Prints any sort of card
☐ 3579 CATALOGUE 3 Disk catalogue
☐ 3580 FIREFLY SHOOTEM
Amazing shoot em up don't miss it
☐ 3581 SOFT AGA A bit of a laugh
☐ 3582 KEFRENS GALE AGA
An AGA kefrens demo
☐ 3583 SONIC THE HEDGEHOG
It can't be?
☐ 3584 SKID MARKS Wicked racing game
☐ 3585 COPIERS UNLIMITED
A huge collection of copiers
☐ 3586 LEMMINGS 2 HD PATCH
☐ 3587 LIBS DISK
Every library you can think of is on this great disk
☐ 3589 WALL STREET
☐ 3590-2 TOOL Manager 2 KS2/3
Desktop management system, comes with full documentation and examples
☐ 3593 DISKSALVE 2
Essential for ks2/3 users,can salvage corrupted disks with a very high success rate
☐ 3594 LEMMINGS 2 HD PATCH
☐ 3595 FOOTBALL FORECASTER
☐ 3596 THRUST DUEL
☐ 3597-3 GRAPEVINE 16
The disk magazine
☐ 3600 FAIRLIGHT 242
☐ 3432 ACTION REPLAY IV
A very impressive rave demo
☐ 3604-6 PAGESTREAM ART
Six disks of structured Page Stream art. Very high quality

SPACEBALLS 2

Following the hugely popular
" Simply state of the Art" Spaceballs
have now released
NINE FINGERS
the follow up
Even better that the first
A rave demo to beat ALL
other demos...
Order code: ☐ 3793-2

☐ 3607 HOLUSION ART
You've seen the printed 3D art , now here it is on your screen
☐ 3608 OSCAR PREVIEW AGA
☐ 3609 JELLY QUEST
Addictive new game
☐ 3610 LYAPUNOVIA AGA
Amazing space generator
☐ 3611 DISK MAGAZINE 2
☐ 3612 KUNG FU CHARLIES
Neat little platform cum beat'em up
☐ 3613-2 MENTAL Image GAMES
2 disks of some of the best PD games around
☐ 3615 LSD UTILS 135
☐ 3616 LSD UTILS 137
☐ 3618 AGADOO AGA
☐ 3619 DATASETTE 64
Now you can load from cassette on the C64 Package
☐ 3620-2 BODYSHOP 4 AGA
A 2 disk collection of some lovely girly pictures
☐ 3622 MICRO MARKET 1.2
☐ 3623-2 MR MEN OLYMPICS
A brilliant childrens Olympic game, lovely graphics, music and sound FX

LATEST PD

☐ 3625 EPU DISK STACKER
EPU can double the space on any disk that being floppy or hard. So on a standard 880k disk you'll fit around 1.5 meg of information. It's very easy to use and when its running it stays in the background, so you can use your computer as normal
☐ 3626 ASI 119
☐ 3627-2 MOTOR INV 2 AGA
Motorola Invaders 2 is the first AGA space Invaders clone. Over 130 colours on the screen, and 1 meg Soundtrack. Wow!
☐ 3629-4 STAND AT HOTH
A 4 meg amazing Star Wars animation. Unreal!
☐ 3633-2 START OF THE ART
A 2 disk collection of around 30 graphic utilities
☐ 3635 ROBOULDIX
An up to date Boulderdash game, great stuff
☐ 3636 TEXT ENGINE 4.1
The most popular Word processor around, includes a spell checker
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A collection of different utilities
☐ 3638 STEEL PLAYER V1
Music player

PC TASK

THE COMPLETE PACKAGE
Supports high density drives, hard disks, CD Rom. Reads and writes on HD and floppy. VGA Graphics on AGA machines
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Includes free boot disk
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☐ 3639 DIGITAL ILLUSION
Picture converter
☐ 3640-2 STARBASE 13
An arcade adventure, Brilliant stuff
☐ 3642 HDPREP
For preparing your new A1200 hard disk
☐ 3667 INSECTOIDS 2
A upto date Space Invaders game
☐ 3668 SHANGHAI 93
☐ 3669 SPECCY GAMES LHA
A large collection of classic spectrum games
☐ 3670-3 SPEED RAVE DEMO
A 4 disk non-stop rave extravaganza, not to be missed. If you thought Spaceballs was good, you're mistaken
☐ 3674-2 WICKED SENSATION
A new 2 disk RSI megademo features amazing visuals and music
☐ 3676 WATERPROOF
☐ 3677 STEVIE NICKS
Very funny sample of a Stevie Nicks promotion
☐ 3678 CHROMAGIC MUSIC AGA
A1200 music demo
☐ 3679 INTENSE
☐ 3680 EXIT 13
☐ 3681 GARDEN DESIGNER
Design your garden with ease. Place out sheds, path ways, ponds etc
☐ 3682 MANDELPLOT 2.4
☐ 3687 TMAP DEMO AGA
Very impressive A1200 interactive graphics demo
☐ 3688 JPEG DATA TYPE AGA
☐ 3689 COMPUGRAPHIC FONTS
☐ 3690 ART SELECTION
Over 30 selected pictures
☐ 3691 POSTSCRIPT FONTS
☐ 3692 TSMORPH 1.2
New morphing software
☐ 3693 MANDELMANIA 4 AGA
256 colour A1200 Mandelbrot generator
☐ 3694 PLANETARIUM
Stars 'n' Things
☐ 3695 PD WORD PRO 4
Powerful word processor
☐ 3696 KLAW UTILITIES 4
A collection of utilities
☐ 3697-2 ASI AGA FIX DISKS
2 disks of A1200 utilities to help you get older Amiga games to work on your machine
☐ 3699 ANIMAL LAND 1
Childrens educational game
☐ 3700-2 IMAGINE OBJECTS
2 disks of Imagine objects
☐ 3702-4 SOURCE CODE
Assember source code
☐ 3706-4 SB PROLOG
Programming language

A1200 PUBLIC DOMAIN

If you own an Amiga 1200 or A4000 ask for our A1200 PD list, it gives details of all our AGA PD software, we have over one hundred A1200 PD disks including demos a few games, and loads of utils
☐ A1200 PD LIST
(free with any order)

LATEST PD

☐ 3710 MPEG UTILITIES
☐ 3711 LSD UTILS 141
☐ 3713 LET ME OUT ANIM
2 animations about a dog
☐ 3714 PROFESSIONAL BINGO
High quality Bingo software, it can even print out the Bingo cards
☐ 3715 SPATIAL HYPERDRIVE
Fast paced shoot em up
☐ 3716 BAR CODER
Perfect for creating official bar codes
☐ 3717 LIGHT WAVE OBJECTS
Objects for use in Lightwave
☐ 3718 NUMTRIS
Another great Tetris game
☐ 3719 LEMON DEMO
☐ 3720 BEETLE GAME
Addictive platform game
☐ 3721 OCTAMED V2
Updated Octamed v2
☐ 3722 MPEG MOVIES
A collection of MPEG movies and MPEG player
☐ 3723 TOTAL WAR Brilliant game
☐ 3724 UPCAT KS2/3
For cataloguing your disk collection on Amiga
☐ 3725 D-SOLVE CROSSWORD
Crossword solver
☐ 3726-2 2 UNLIMITED
Brilliant music by Scooper
☐ 3728 XMAS LEMMINGS
Demo of Xmas Lemmings
☐ 3729 KLAW UTILITIES 5
More miscellaneous utils
☐ 3730 MR BUNS UTILS
A small collection of utils
☐ 3731 DOCUMENT PROTECTOR
Document file protection
☐ 3732 DEMO MAKER UTILS
A collection of tools for creating demos
☐ 3733 OCTAMED SAMPLES
High quality samples
☐ 3734-2 PICTURE FONTS
A 2 disk set of IFF fonts
☐ 3736-2 FONTS & TEXTURES
2 disks of professional fonts and textures
☐ 3738 HOTBLOX
New Tetris clone
☐ 3739 EASY CALC
Nice little spread sheet
☐ 3740 EPROMMER ETC
Eprommer on the Amiga?
☐ 3741 KIDS FAVOURITES 2
Lots of childrens nursery rimes
☐ 3742 MENU LAUNCHER V1.0
Easy to use menu system
☐ 3744 MONTAGE -LANDSCAPES

THE NEW DEGRADERS

A set of degrading tools for your A1200, you should now be able to run all your old games
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☐ 3745 HIGH OCTANE
A 2 player top view racing game, wicked!
☐ 3746 ASTRO V22 V3.5
Your Star Signs
☐ 3747 MENUMASTER V3
Easy to use menu system
☐ 3748 COCCAINE
☐ 3749 PERSONAL DIARY 94
Diary system for 1994
☐ 3750 3D GAMES 2
A collection of 3D games
☐ 3751 FERRARI AGA SLIDES
Lovely 256 colour pictures
☐ 3752 MR BROWNSTONE
☐ 3753-2 DRUMKIT SAMPLES
2 disk collection of drum samples
☐ 3755-2 ON THE GREEN
☐ 3757 RAVE SAMPLES
A collection of rave samples
☐ 3758 GRAPH PRO
Graph plotting software
☐ 3759-2 PARNET SETUP
Tutorial on the Parnet setup
☐ 3761-2 STARTREK THEMES
Themes from Star Trek and the Next Generation

LATEST PD

☐ 3763-2 THE JOURNEY
A 2 disk animation
☐ 3765-3 MUSIC GUIDE
A 3 disk tutorial on creating music on the Amiga
☐ 3768-2 THUNDERBIRDS DEMO
Comical animation
☐ 3770 JUNIOR MATHS
Shareware maths for kids
☐ 3771 STOP SMOKING
3 ways to stop smoking , very sick indeed
☐ 3772 MAGIC WORKBENCH
Contains loads of 8 colour Workbench Icons
☐ 3773-3 GRAPEVINE 17
Disk magazine on 3 disks
☐ 3776 FATAL MISSION 2
Excellent new fast paced Shot'em up. Great!
☐ 3777 OPERATION FIRESTORM
Stunning new game, amazing graphics
☐ 3778 MAP STATION
Map maker
☐ 3779-2 STARTREK 6
Comical 2 disk animation
☐ 3781-7 SPECTRUM GAMES 2-8
Hundreds of games for use with the Spectrum Emulator

EPU HARD DISK STACKER

Double the size of your existing hard disk with ease, got an 80 meg drive you'll now have over 150 meg
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☐ 3788 CDTV KEYBOARD TO CD32
Use your CDTV keyboard on your new CD32
☐ 3789-2 BODYSHOP 5 AGA
Lovely lady pictures
☐ 3791-2 HOLODECK STARTREK
A collection of impressive Star Trek pictures
☐ 3793-2 SPACEBALLS NINE FINGERS
After the hugely successful State of the Art, Spaceballs 2 is now available, and even better than the last
☐ 3795 XANADU EXPLICIT 2 AGA
AGA megademo
☐ 3796-2 FIT CHICKS 3 AGA
Lovely ladies
☐ 3798-2 FIT CHICKS 2 AGA
Wicked girly pictures
☐ 3800 VIEWTEK V2.0 AGA
Graphic viewer
☐ 3801 ORC ATTACK
New arcade/dungeon game
☐ 3802 EMPTY HEAD DEMO AGA
Impressive AGA demo
☐ 3803 ADDRESSER
Brilliant address keeper
☐ 3804-10 COLOUR FONTS
10 disks of colour fonts
☐ 3814 Unpleasant WAY TO DIE
Sick but comical slides
☐ 3815 DEATH WALK 1.5 MEG
Sick 1.5 meg animation
☐ 3816 IMAGINE USS ENTERPRISE
Object for Imagine
☐ 3817 LSD32 CRUNCHMANIA
Includes every Archiver & De-Archiver available
☐ 3818 SUICIDE MAN 2
Very sick animation. Good
☐ 3821 DTV STUFF
Desktop video stuff
☐ 3822 MAND 2000 AGA
Mandelbrot generator, with real time zoom!
☐ 3824 TURBO DISK
Speed up your drive access
☐ 3825 ELEVATION 2
great arcade game
☐ 3826 PARBENCH
Parnet set up for use through Workbench
☐ 3828 VOLCANO AGA
New AGA demonstration
☐ 3829 DEPTH CHARGE GAME
Basic but addictive
☐ 3831-2 CHANNEL Z AGA MAGS
Contains stories, utils etc
☐ 3833-4 MANGA SLIDES AGA
A huge amount of hand drawn graphics
☐ 3837 BBC EMULATOR
A BBC Emulator!

LATEST PD

☐ 3838-2 COMPLEX origin AGA
Amazing A1200 megademo on 2 disks. Stunning introduction
☐ 3840 GRAPHICS GRINDER
A collection of graphic converters
☐ 3841 ASI GRAPHIC TOOLS
Converters
☐ 3842 DISK MANAGER III
Powerful disk cataloger
☐ 3843-2 STAR TREK AGA
Very impressive AGA Star Trek pictures
☐ 3845 FOOTBALL FORCASTER 1.2
Pools predictor
☐ 3846 MAGNUM 1.7
Magazine creator
☐ 3847 HIGHWAY CODE
Learn the Highway Code
☐ 3848-3 ICONS PLUS KS2/3
Hundreds of WB2/3 icons
☐ 3851 GAME TAMER 4.54
Over 400 game cheats!
☐ 3852 MULTIPLEX PUZZLE GAME
Addictive new puzzle game
☐ 3853 SMELLS LIKE NO 5 AGA
Amazing new A1200 megademo
☐ 3854 PARNET HELP
Need help with Parnet?
☐ 3855 ASI AUDIO MAGIC V
A collection of music tools
☐ 3856-2 TITLER II
2 superb video titlers
☐ 3858 LCD GAMES
5 all time classic LCD games
☐ 3859 SUNJETS ANIMATION Wow!
☐ 3860 BATTLE FORCE ADVENTURE
New arcade adventure
☐ 3861 NOSTALGIUM 'URIDIUM'
Very similar to Uridium
☐ 3862 PARA ATTACK
☐ 3863 EASYCALC+ KS2/3
The most powerful Amiga based spreadsheet available. Very similar to LOTUS 123
☐ 3864-4 MEAN MACHINES
Amazing 3.5 meg animation
☐ 3868 NEURAL ASSAULT DEMO
Very impressive mega demo
☐ 3869 PLACEBO INVADERS
Very colourful space invaders clone
☐ 3870 TACHYON
Tron clone
☐ 3871 MOOSE DRIVER (racing)
Addictive new top view racing game, contains great graphics and sound
☐ 3872 FANTASY TO REALITY
New rave compilation
☐ 3873 DITHEL IN SPACE GAME
Superb quality shoot-em up cum platform games, similar to Jet Willy, but better
☐ 3874 KISS THE CANVAS GAME
Preview of Beat'em up
☐ 3875 PRO CAD ELECTRONIC
Electronics Computer Aided design package, great!
☐ 3876 FOOTY
Pools forcaster
☐ 3877 PAY ADVICE ANALYSER 4
Powerful PAY Analyser
☐ 3878 TRONI-CAD 1.36
Electronics CAD package
☐ 3879 X-PASSWORDS
Password protect your hard disk and floppy disks
☐ 3880-2 TRAX 'n' TRACKERS
A collection of latest Music makers and samples etc
☐ 3882 EASY SLIDE
The worlds easiest to use slideshow maker
☐ 3883 SOLAR LORDS
Arcade RPG game
☐ 3884 STEWARDS ENQUIRY
Horse racing game
☐ 3885-2 KIDS DISK 3 & 4
2 educational titles
☐ 3888 MEGABALL AGA
Latest and greatest A1200 version of Megaball
☐ 4005-3 KLONDIKE AGA
A 3 disk A1200 only card game, very impressive stuff
☐ 4006-3 SPECTRUM Emulator play
Spectrum games on your Amiga. Complete with over 40 ready to run Spectrum classics.

Priority Order Form

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PD Prices per disk

1 Single disk	£3.00	2-5 disks	£2.00 each
6-10 disks	£1.75 each	11-20 disks	£1.50 each

+ Postage & Packing in the UK. Add 50p to any order

Ordering by Post
Simply send us a written order with a list of the disks you require, enclosing full payment, or simply tick the boxes of the titles you require, fill in your name & address, remove or photocopy this page and send it to:
VIRUS FREE PD, 31 Faringdon Rd, Swindon, Wilts.
Make cheques or postal orders payable to VIRUS FREE

Collecting Disks
PD disks can be collected same day, but if your order is quite large, please phone us a few hours previous to pickup.

Ordering by Phone
To place an order over the phone simply call any time between 9.30 & 5.30pm Monday to Saturday with your credit card details and the disks you would like to order.
(Orders can usually be placed up to 7pm every evening.)

Overseas Orders
Overseas orders are welcome, but please add 25p for each disk ordered, a minimum of 5 disks applies.

AMIGA Workshop

ISSUE 17 MAY

Yes, good afternoon. I'd like a pound of sprouts, a small tin of spaghetti hoops, a box of drawing pins, and have you got a birthday card for my niece? No! It says Workshop, not corner shop! This isn't the place to get a bag of sugar and packet of custard creams at 7.30 at night. It's where we help you get the most out of your Amiga, whatever your particular interest happens to be (unless of course it happens to be pigeon fancying, in which case we can't really help you at all). We've got experts giving easy to follow tutorials on *DPaint*, *Scala*, *Workbench*, *OctaMED*, *Blitz Basic* and *ARexx*, plus all your views aired in Backchat and our regular Q+A section. All of that, plus Andy Leaning!

Regulars

166 QUESTIONS AND ANSWERS

"I've got this problem you see, but it's a bit...you know...personal. I've tried Dear Deirdre, but she couldn't help, so I wondered if you could tell me why my hard drive won't talk to me anymore." Don't worry, John and Andy are here to sort out all your embarrassing technical problems.

174 BACKCHAT

Tony Dillon never gets any post (he was never a popular child either, but that's all in the past now), so we think it's only fair that he gets all the readers' letters – what's more, he gets to write all the replies too, so it's almost as if he has real friends!

178 POINTS OF VIEW

Points of View this month is given over to Andy Leaning – CU AMIGA's new technical editor. Who is this mysteriously well-ironed chap, and what's he doing editing CU AMIGA in a technical kind of a way? All will be revealed on page 179.

PETER LEE'S DPAINT MASTERCLASS

148

In the final part of his *DPaint AGA* tutorial series, Peter Lee gets all animated over the 200,000 colours available in HAM8 mode, and spills the beans on how to make the best use of the enormous palette. 24-bit graphics boards? Who needs them?

VIDEO VISUALS

Front
Outline
Font:Franklin

152

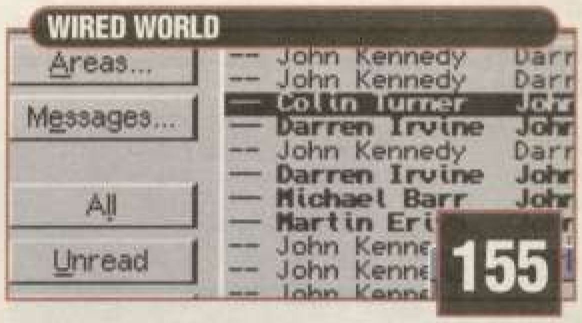
Scala means ladder in Norwegian, so this month we thought we'd get Jason Holborn to write his *Scala* video column sitting at the top of a step ladder. It's a good job for Jason that *Scala* isn't Norwegian for 'big pointy sharp stick' isn't it?

AMIGADOS PROBLEM SOLVER

154

John 'Do you Ken?' Kennedy pretends to be Scottish momentarily, just to make his nickname a bit more relevant. Then he gets on with dishing the dirt on a load of tricks you can perform with Workbench, a red spotted hanky and an empty matchbox.

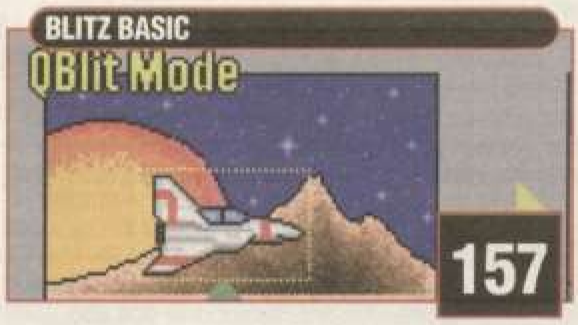
WIRED WORLD



155

"Oh baby, baby it's a wired world", so says John Kennedy. This month in his Comms article he explains how you can contact CU AMIGA with your modem. Not only that, but the original ciderpunk also lets us in on the secrets of the wonderful FidoNet system.

BLITZ BASIC



157

"When the red, red Robin goes bob, bob bobin' along..." Yes, it's that king of songsters, Mr Jason Holborn once again. Not only is he singing about bobs, he's even writing about them, in part 6 of his essential *Blitz Basic* tutorial series.

AREXX

160

Why do all the hard work when you can get *ARexx* to do it all for you? This month,you can put your feet up as Dave Smithson concentrates on integrating *ARexx* with *Art Department Professional*, probably the most Arexxable program in the world.

COMMON DISK PROBLEMS

162

Got a problem with a coverdisk? Go on, try a bit harder, you must be able to find something wrong with one of them, most people do. If you have, your query is probably answered in our special coverdisk trouble-shooting guide on page 162.

TONY HORGAN'S SOUND LAB

172

A bit of tonsillitis, and that Horgan bloke disappears without a trace. Lucky then, that Darren Irvine is on hand with a stack of tips to help you get the most from our stunning *OctaMED 4* coverdisk. This month Daz has got some corking ideas on how to jazz up your drum tracks.

PART 4

Pete Lee's DPAINT AGA TUTORIAL

In the final article of this mini series, Peter Lee figures out the best way of controlling the plethora of colours available with *DPaint AGA*...

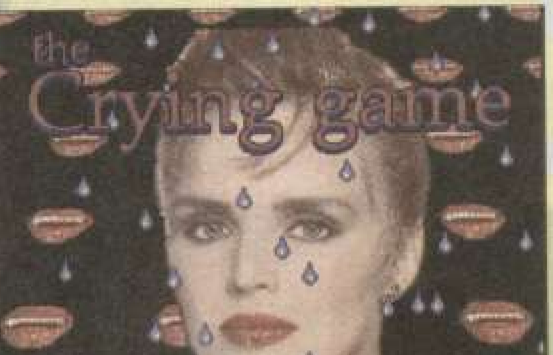
Having a standard palette with 256 colours has got to be one of the biggest thrills offered to *DeluxePaint* users by the Amiga 1200's AGA chipset. But even this is dwarfed when seen alongside the HAM8 mode, which can display 262,144 different colours in the low res 320 x 256 screen set up.

The problems associated with Hold And Modify are still present, but slightly minimised by a base palette of 64 colours; however you still get fringing as some colours are painted next to others. But in normal use, this is a worthwhile trade-off against some wonderful painting and animation effects. This is the final article in this brief AGA series, so let's get down to it!

MULTI-PLANE ANIMATION

In this exercise we'll be creating an animation with depth; it has fore, mid and back-grounds. Once again the subject isn't important, it's the technique which counts.

The idea for this animation came from a still image, in this case it's a 256-colour digitised picture of a woman's face. *DPaint* takes care of converting it to HAM8 mode when you load something like this in, which is pretty useful.



Multi-plane animation in action – the animated mouths recede as they open and close, drops glide down screen.

The background required some artistry. It's a full-screen four-frame full-perspective sequence of her mouth opening and closing, as if talking. I clipped out the lips, tidied up the edges, then created the opening lips based on the original.

To get the lips to curve as they open, I used the Brush/bend vertical option. Joining the edges of the mouth and adding the teeth was done by hand using standard DPaint drawing tools in magnify mode.

Once all four drawings of the mouth were complete, I created an eight-frame blank animation sequence, and pasted down images from the changing lips sequence on successive frames, in the same spot relative to the previous frame. When I got half-way, I reversed the order so the mouth would close for the final half of the sequence. The mouth was then picked up as an Animbrush, and the screens cleared

The particular effect we're after in the background is of an image moving off into the distance as it animates. To do this we need to call on Perspective. So, from the Effect/Perspective menu I chose Do, and using the numeric keypad, set the X plane to -34 (effectively tilting the brush image backwards).

To get the Animbrush moving up-screen as it animates I set a value of 128 in the Y movement box, and to cover the whole screen with the animated brush, selected Fill from the requester over eight frames. It took a short while, but *DPaint* filled the screen with opening and closing mouths, receding as they went up screen.

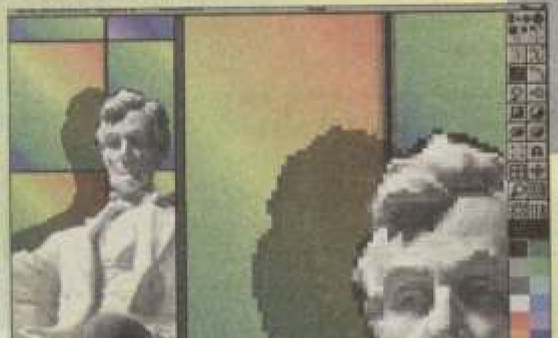
Next the mid-ground; I pasted down the woman's face in the same spot on each of the animation frames, then on the Spare screen, drew a series of raindrops. I cut out the whole screen as a brush, and flipped back to the first frame of the animation sequence. I positioned the brush handle at the lower edge of the large brush of raindrops, and from the Move requester cleared all values before entering -256 in the Y slot. This had the effect of drawing the sequence of drops down screen. To get even more drops, moving differently, I set the big brush's position differently from the first time, and did exactly the same thing until there was enough foreground rain. (To set a brush position, place it on screen, right click the mouse button, then press Undo from the toolbox icons).

The last touch was the foreground text, which was pasted manually on each of the eight frames. Pressing key 4 now animates the series of frames in a loop and very nicely too.

That wasn't too much of a challenge for HAM8, but it shows how techniques can be spread across the breadth of DPaint's range. This next screen, and the ideas used, was pushing it a little though...

WILLING AND ABE-L

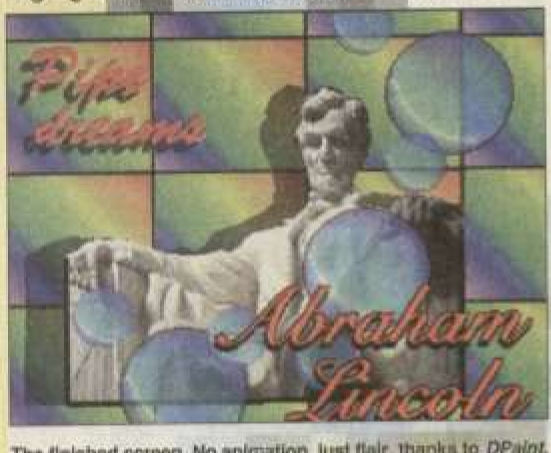
Let *DPaint* brag a little by handling 100s of 1,000s of colours on screen. So, you've got over 200,000 colours. What are you going to do with them ? Not a lot on your own, but with *DPaint* working out all the hard parts, you can use this immense number to achieve glorious effects.



A magnified view of the image shows just how effective Translucency is for darkening colours.

Once again the subject of this example isn't what's important, it's how the effects are achieved which will be of use. And for this example I wanted to give *DPaint* something difficult to work with, so I set up a Range of colours reflecting the rainbow – red, orange, yellow, green, blue, indigo and violet.

This was then used as the basis for a Line fill, with the angle set to the top right of a rectangle (you set the angle by placing a rubber-banded highlight line after using the Fill tool with Line selected). The result is a multi-coloured tile, which I copied and pasted repeatedly as the backdrop to the image.



The finished screen. No animation, just flair, thanks to *DPaint*.

On the spare screen I loaded in a 256 colour image of the Lincoln statue in Washington DC, and cut round it. I wanted a shadow effect on the tiles, so having cut out the picture as a brush, selected Colour as the paint mode (F2) with black chosen from the palette as the foreground colour. This turned the picture into a solid black shape – a silhouette. In modes with fewer colours, black alone is okay as a shadow, but HAM8 can do much better; by making the Translucency setting 40, and turning it on, when the brush is now pasted onto the tiles the underlying colours are still visible, but darkened and muted to give a realistic shadow effect in the shape of the brush.

Pressing F1 restores the brush to its 256 colours, and it was a simple matter to offset it from the shadow and paint it on screen. The transparent foreground bubbles were created as solid objects on the spare screen, using a new range of colours which included a built-in highlight - lighter colours forming part of the range itself.

Once again Line was the Fill option chosen, and the spheres were pasted onto the main screen with a high translucency, 60%. Their sizes were altered simply by repeatedly pressing the - (minus) key.

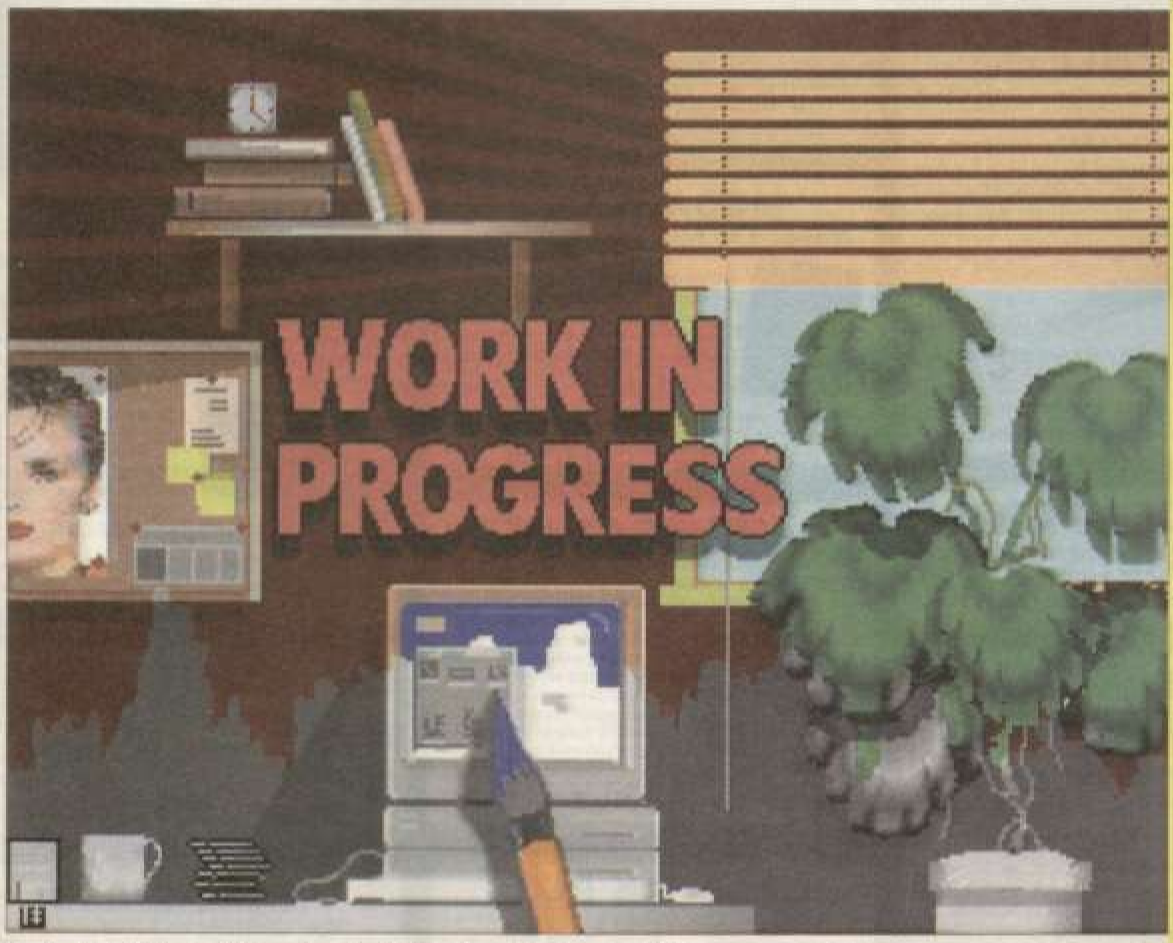
DPaint pasted them down wonderfully, the vast range of colours available in the palette allowing the image underneath to show clearly through, but affected by the topmost colour. Once again text was added to bring the screen's message home.

I hope the past four articles have been a useful appendix for A1200 users wanting to go that extra mile with *DPaint*. Until next time, let your ideas flow and your skills grow.

HANDS ON TUTORIAL

TUTORIAL FOUR

Peter Lee demonstrates the last hands-on tutorial in the series.



Our final tutorial image. We're going out with a big bang, but it's not as difficult as you may think.

For the final tutorial in the series we'll be combining techniques already covered, plus some new ones to help add finesse to your drawing skills. This tutorial is in HAM8 mode – a feature of the AGA chipset which allows A1200/4000 owners to use 262,144 colours on screen at once.

The picture is composed of many elements: the notice board, plant, computer are all designed individually, then added to the scene. The reason for adopting this modular approach is to enable us to create complicated items quickly on blank screens and keep the main image intact without risking edits which you can't undo. It also has the benefit of allowing you to build up a brush library of objects which you might well need at some future date.

THE PLANT

Start with the Monstra cheeseplant. A simple repeated shape is used for the leaves, and the highlight colouring is done automatically by DPaint AGA – it's like painting the Sistine chapel by numbers – draw an outline and fill it with shape and texture. Here's how...

The starting point is the leaf shape. Draw it in a solid colour because we're adding the light effects later. You can either use the Fill Draw tool, or rough out the shape, then tweak it by erasing the gaps between the leaf fingers.

Next, call up the Range requester, and place these colours in the corresponding order: From the left: slot 1, colour 9, slot 9 colour 106, slot 16 colour 100, slot 24 colour 109, slot 28 colour 104. You will notice when you Show this range, that dark and light variations of green produce subtle banding effects, and this is what we're capitalising on.

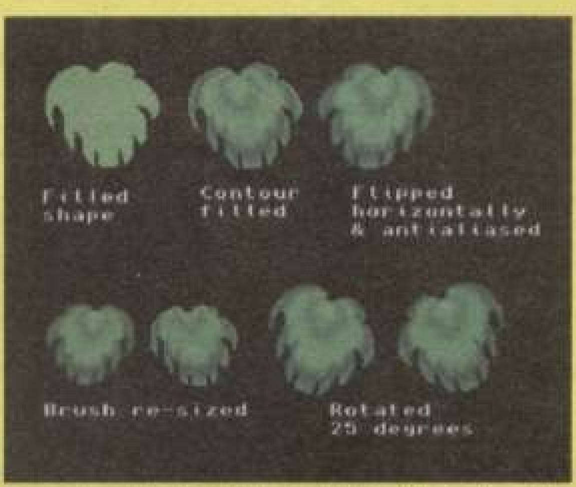
Because, when you now call up the Fill requester and activate the Hi (light) fill option, *DPaint* will be able to contour the greens into any shape you fill. By filling the solid leaf you will see the lovely way the greens shimmer and reflect off the surface in a realistic way.

From the illustration you can see various leaves, and they are all based on the single leaf we've just created. By clipping out the leaf, and rotating it around 25 degrees you can create a different looking leaf. Cut it out and flip it from left to right (press x on the keyboard) you make it face the other direction. Press + or - a few times, and you change its shape too. This way, one leaf can be cloned into our entire plant.

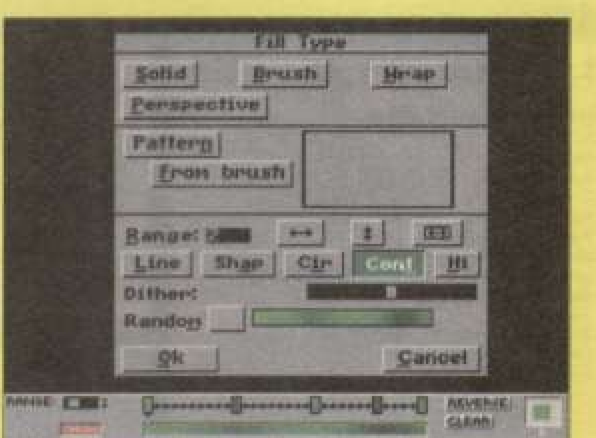
TIP: when rotating or flipping, set DPaint's Anti Alias to High to get rid of any jagged edges, which can form during these operations at this low resolution.

The plant's stalk is simply a series of forked lines, over which we can paste leaves in a realistic manner; and to add the final touch, a few aerial roots can be added using light brown.

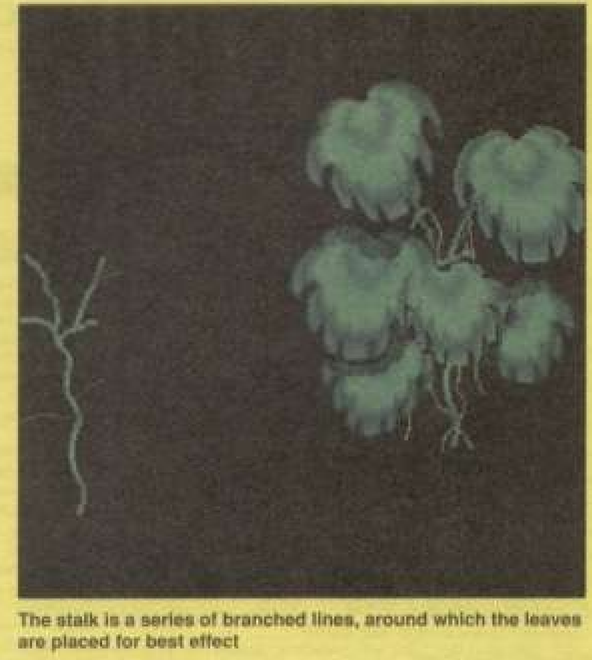
The plant container is a filled rectangle which uses a range of browns; To create the highlight effect, select the vertical fill option before drawing. »



Propagation of the leaf: On the top left is the filled outline which forms the basis of all future leaves. The two leaves next to it have been filled using the green range and Highlight fill, and the lower row of leaves are rotations and resizings of the original leaf.



A composite screen showing the range of greens used to create the plant fill, together with the Fill requester's Contour fill option highlighted. For the plant pot , desk and shelf, you need a range of browns, with the Vertical fill option highlighted (that's the button directly above Cont).



The stalk is a series of branched lines, around which the leaves are placed for best effect

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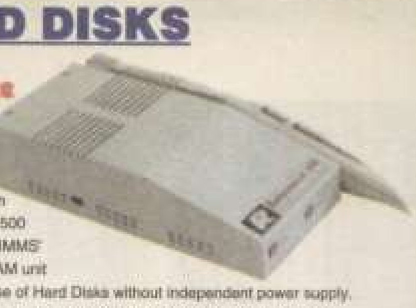

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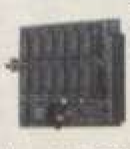

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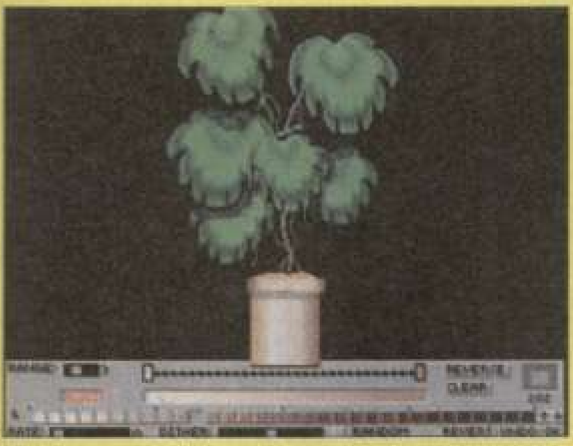
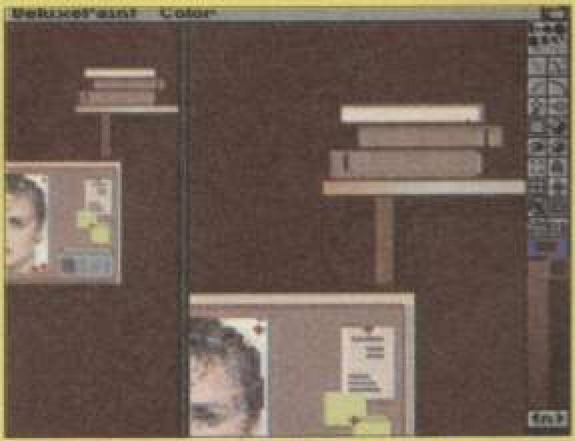
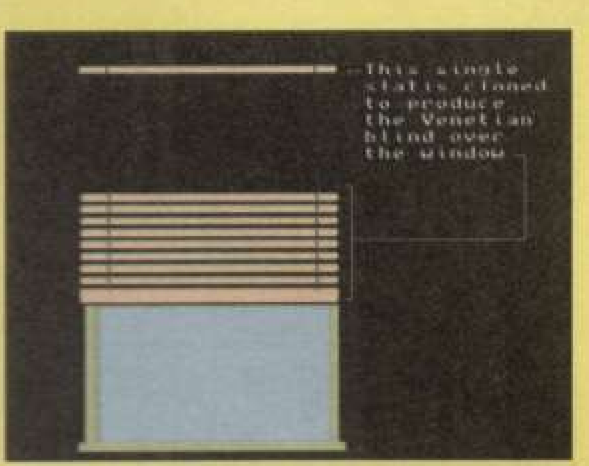


DPaint draws the container for you too: a range of browns, using the horizontal fill option. Brown range colours are 192 and 202.



The notice board and shelf begin to take shape in this magnified view.


This single slat is cloned to produce the Venetian blind over the window

The window is a blue rectangle with a simple frame, and the blind a series of cloned rectangles overlaying it.

NOTICE BOARD, SHELVES & BOOKS

This is simply a set of rectangles, with the nice addition of a digitised image. The image was one of many available on PD disks, and was repeatedly shrunk using *DPaint*'s halve brush option (keyboard h). The quality doesn't have to be brilliant, because it's a throwaway element on the picture. The Post-it notes and cuttings are single colour rectangles, held on the board by single-dot red tacks.

The books, again, were simple rectangles. The shelf, together with the desk used identical colour ranges to the plant pot to give a highlight to the wood.

WINDOW

This feature was the only object drawn in situ, on the screen. Its positioning was key to the design of the screen. And all it consists of is a blue rectangle surrounded by a wood-coloured frame. The actual Venetian blind is one thin filled rectangle cloned repeatedly and positioned to create a half-open effect.

COMPUTER

Although small, this is a key element in the construction of the drawing. You might want to draw it large, then shrink it down to size. But doing this will eat away at the definition in the final object, resulting in jagged lines and pixelisation. Far better to work in miniature, using *DPaint*'s magnify option. The computer is, as you can see, a series of rectangles with rounded corners (just remove each corner pixel for the effect).

The display screen has a window open on it, a pointer, and a shiny highlight to suggest curved glass.

To do this, place a small blob of white on the blue screen, then choose Smooth from the Effects menu, and blur around the blob's edges a little. Mouse and keyboards are your standard rectangles.

PUTTING IT ALL TOGETHER

As you draw the various elements, you should save them, either as full screens, or as brushes, because now's the time to bring all the various elements together. Your main drawing screen should contain the mid-brown background colour and a window, positioned to the right of centre. First thing to add is the plant.

Either load in the brush, or switch to your spare screen, load in the picture of the plant, and clip it as a brush.

Position it in front of the window, and for emphasis you can select black as the foreground colour and outline the plant (keyboard o). The benefit is that this will make the plant stand out, but the downside is that when painted on the light blue of the glass, this outline will look intrusive, so you will need to manually remove it where the plant overlays the glass.

Now place the other elements in roughly the areas shown in the illustrations, and you can add personal items to the desk – cups, disks or whatever.

SHADOWS

To give a feeling for depth to the scene, you need to add shadows; the main light source is the window, so shadows should follow the line of the light.

For instance, the shadow on the computer is on the left, and angled down. To create a shadow, choose black as your foreground colour and from the Effect\Translucency settings menu, set a value of 60%; this will give a dark enough shadow without obliterating what's underneath.

Now with the filled polygon tool selected, draw out the shapes of the shadows, and they will be created by *DPaint* once your polygon line is closed (to close a polygon quickly, just press the Space bar).

The most effective shadows on the image, and ones which give it atmosphere and depth, are from the blind.

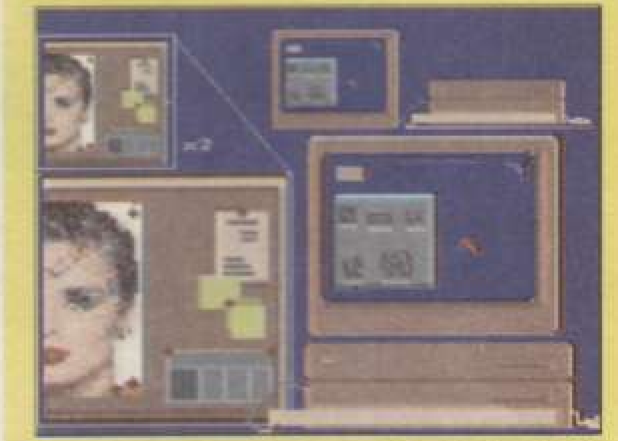
Again, using the same translucency settings, and the polygon tool, draw out elongating shapes to represent light and shade bursting through the blind. The broad ends to the shadows suggests the length of the wall they are falling on.

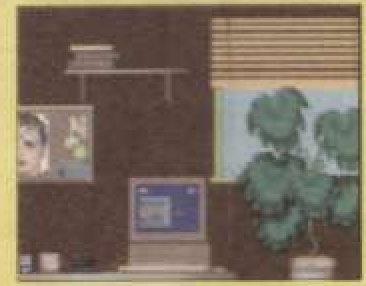
FINAL TOUCH

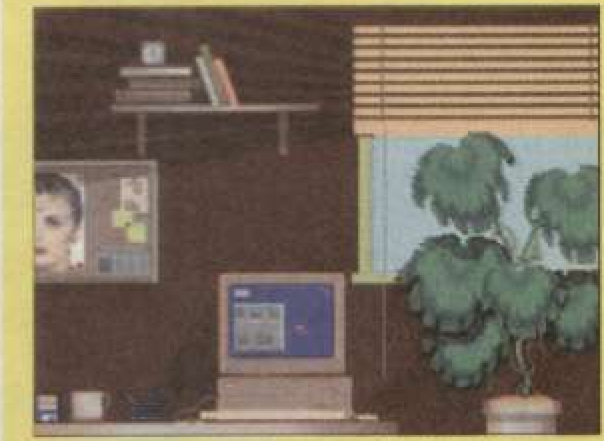
To finish the job, I wanted to give a part-coloured effect to the scene, which meant removing some of the colours already placed in a running paint effect.This is easily achieved by selecting Tint from the Process menu option and turning Process on (Alt/p). Select white from the palette, and using the freehand filled drawing tool you can define an area which will be turned to monochrome, suggesting it's still to be painted.

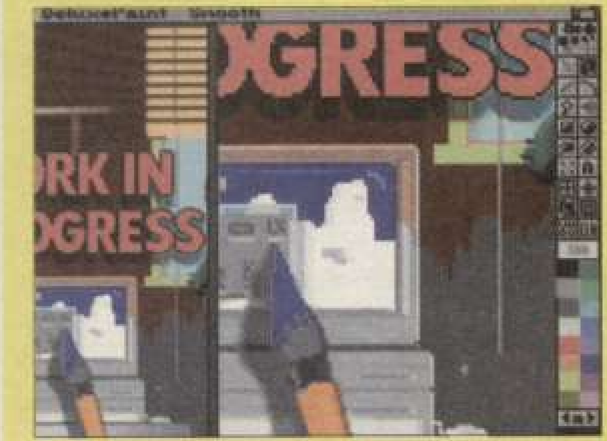
The brush is added finally as a visual clue to the message we're getting across, and the text sums up the image. The brush's shadow was added using mid grey, with Translucency on, and its edges Smoothed.

That's the end of this short series of hands-on tutorials, which I hope have been useful for learning more about the power of *DPaint AGA* and, much more importantly, the range of skills which it unlocks in every artist, from beginner to professional. Finally, I hope you have enjoyed reading these tutorials as much as I have enjoyed doing them. CU


The notice board and computer, magnified to show detail.


Placing the elements – now we're getting somewhere.


The shadows are giving substance and depth to the image.



Magnified view of the brush, showing the contrast between the painted and non-painted areas of the screen.

VIDEO TITLING ON YOUR AMIGA

PART 2

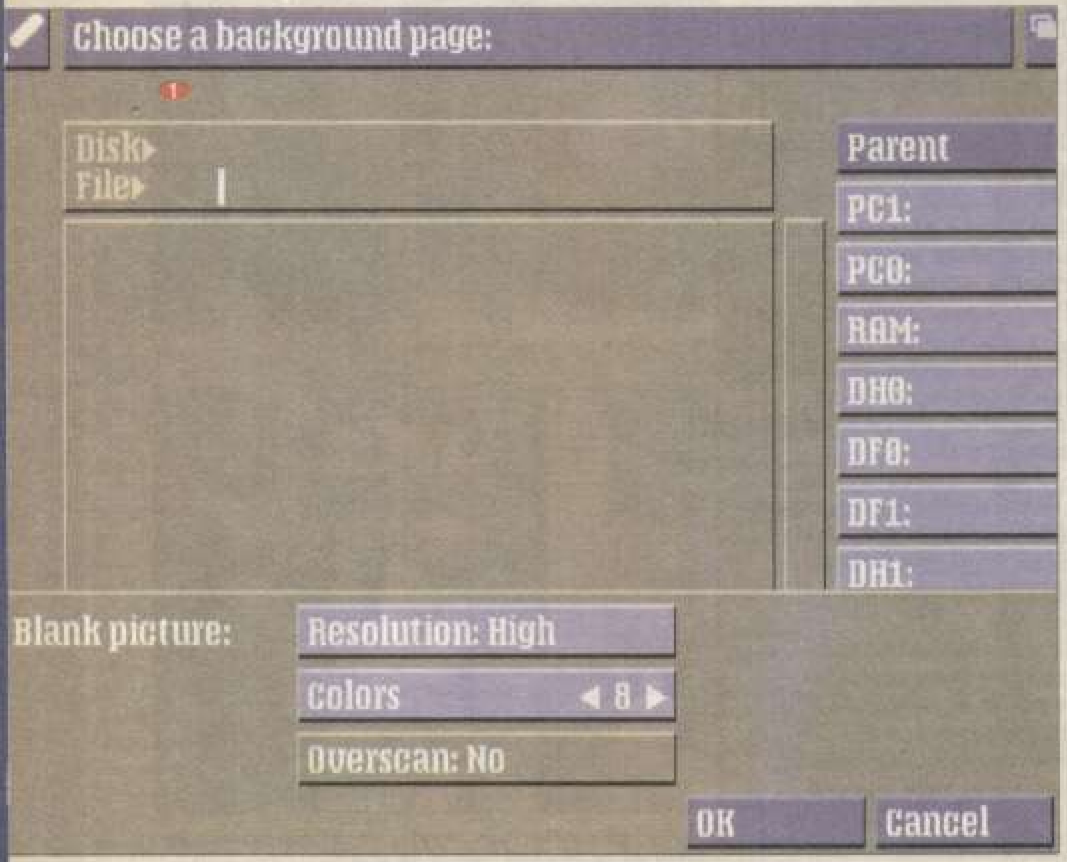
After last month's introduction to *Scala HVT*, Jason Holborn delves ever deeper into this powerful program. Stephen Speilberg eat your heart out.

Welcome back to CU AMIGA's guide to Amiga desktop video. Okay, so I know that the headline says 'Video Titling', but there's a lot more to desktop video than just the process of overlaying titles onto video. Desktop Video is perhaps one of the most open-ended applications on the Amiga as it can address just about any creative aspect of using the Amiga such as sound sampling, 3D modelling and video digitising amongst others. Rest assured that we'll be covering most of these areas over the coming months.

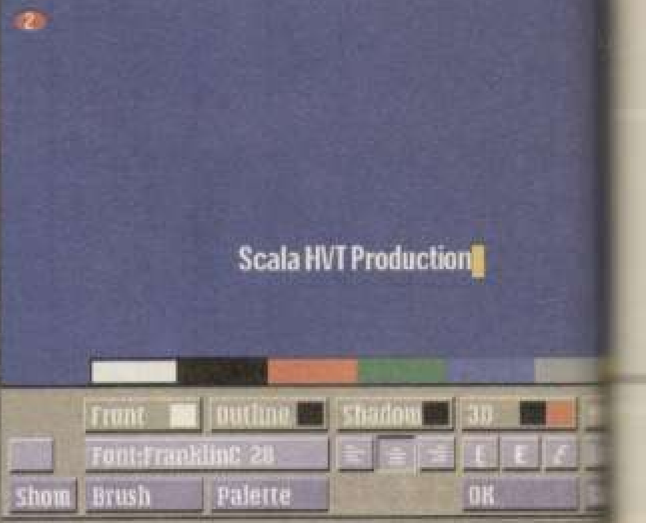
If you were with us last month then you'll already know that we started the first part of a tutorial introducing our brilliant coverdisk video titling program, *Scala HVT*. If you missed either that issue or indeed the issue with *Scala* on its front cover, then back issues are still available. In the meantime, however, let's get stuck in with the second part of our *Scala* tutorial.

① Last month, you should have successfully managed to create a new page complete with your own video titles. When you clicked on the 'Run' gadget on *Scala*'s main menu, you should have seen your titles appear on the screen. The big problem is, however, that the titles are not very exciting. They're about as visually stunning as little white dot which comes on the TV last thing at night. Don't get all disheartened, however, as *Scala* is capable of much, much more.

So, let's start by creating a new page. Click on the 'New' gadget and when the 'Choose a background page' requester appears, click on the 'Ok' gadget and select the default screen mode (high resolution, eight colours, overscan off) by pressing the second 'Ok' gadget. With any luck, the *Scala* Page Editor should spring to life before your very eyes.



Blank picture:
Resolution: High
Colors ◀ 8 ▶
Overscan: No

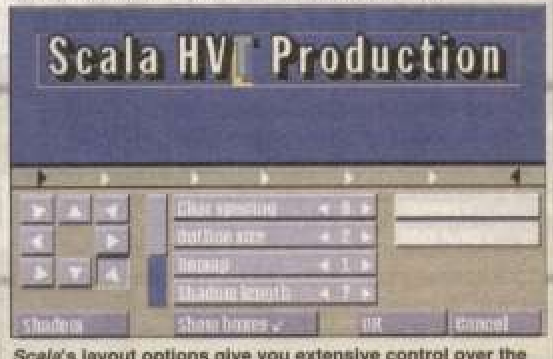


② With the Page Editor loaded, we need to start by entering some text. Before you type anything onto the page, we need to set up a few attributes so that the text appears exactly as we want it. Start by clicking on the 'Centralise' gadget (the middle gadget in the group of three immediately below the 'Shadow' gadget) and then click the right mouse button to temporarily hide the toolbox display. You should then see the entire page on the screen. Click the mouse button as near to the very centre of the screen as your coordination will allow and then enter a line of text such as 'A Scala HVT Production'. Once you've done this, click the right mouse button to bring back the toolbox display.

LAYOUT CONTROLS

Scala gives you an impressive level of control over the various video effects on offer. If you go to the *Scala* Page Editor and click on the 'Layout' gadget, you should see a new requester pop up onto the screen containing a large number of gadgets. Running along the top of this requester are seven little arrows, these are your tab settings that, just like a word processor, give you precise control over where the cursor jumps to when the 'TAB' key is pressed. You can change these tab settings very easily simply by clicking on the arrow you'd like to change (a yellow line should then appear) and then dragging the arrow to its new position.

Below these arrows on the left-hand side of the screen are eight gadgets arranged in a box pattern, each with a little arrow pointing outwards from the centre of the box. This arrangement of gadgets gives you control over both the direction of a shadow (where it is cast) and the direction of 3D extrusion. Just click on one of the eight arrows and any text that has a shadow effect should change to reflect the new shadow direction. Immediately to the right of these eight gadgets are a further set of four gadgets with a scroll gadget immediately to their left. Although only four gadgets can be displayed on screen at once, moving the scroll gadget up and down will reveal more. Each of these gadgets gives you precise control over a particular aspect of *Scala HVT* – the size of a text outline effect, the length of a shadow, character spacing and so on.

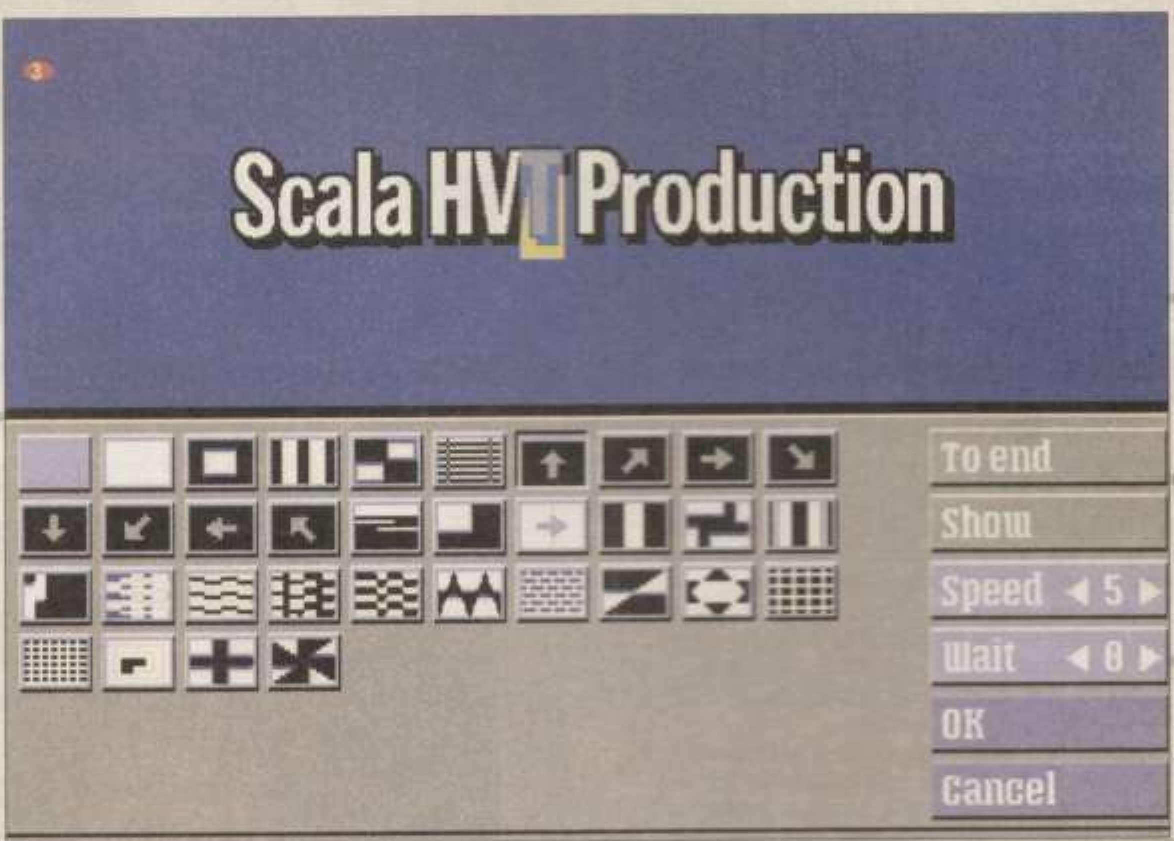


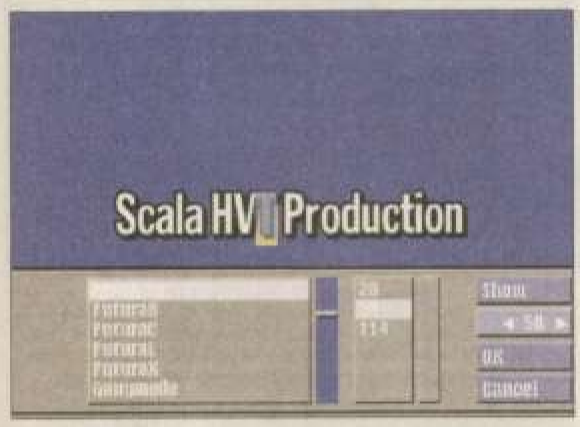
Scala's layout options give you extensive control over the appearance of your titles.

BLANKETY BLANK

If you attempt to apply a page effect to the first page in your *Scala* presentation, you'll notice that Scala never actually shows it. Whilst this can be very annoying (most presentations look very nice if they start by fading in, for example), you can get around this limitation. The trick is to create a 'Blank' page – that is, a page with no titles. Don't worry if you have already created a number of pages for your presentation, simply click on 'New' and when the background page requester appears, click on 'Ok' and then 'Ok' again to enter the Page Editor. Now simply click on the Page Editor's 'Ok' gadget and when you're asked to name the page, it should be called 'Blank'. Click on the 'Ok' gadget and you'll be returned to the main menu. Now that you have your blank page, click on its page name gadget (the long gadget) and, whilst holding the left mouse button, drag it up the screen and let go of the mouse button when its over the top of the first page. You should then see all the pages shuffle down to make room for your blank page.

Before you can go any further, however, you also need to change the 'Wait' event setting (the little gadget with a picture of a mouse in it) for the blank page. Click on the 'Wait' gadget and another requester should appear labelled 'Wait in seconds:'. Click on the right arrow and the mouse should change to '0'. Click on 'Ok' to return to the main menu and that's it - when you play your presentation, the page effect applied to the first page will appear. Clever eh!





If all went well, you should now be looking at a rather uninspiring title with a little yellow cursor sitting immediately at the end of the line. Let's make the title a little bit more interesting by first increasing the point size of the title – click on the gadget labelled 'Font:fontname nn' ('fontname' and 'nn' will vary between machine configurations'). The *Scala* font selector should then pop up onto the screen. Choose a suitably large font (preferably around 60 point) and select 'Ok' and the title should change to reflect the change in size and font. If you're feeling a bit more adventurous, why not turn on the 'Outline' and 'Shadow' effects? Now that we have some text on the screen, let's take a look at a brand new aspect of *Scala* – text wipes. Text wipes are a very powerful aspect of *Scala* that allows you to change how a line of text should appear on the page when the page is first displayed. Previously all the text that we were creating was simply fixed to the page so that when it appeared, the text appeared to be an integral part of the page.

With text wipes, however, we can breathe life into our *Scala* pages with wipes, scrolls, dissolves and a whole wonderful host of other powerful effects.

Before we can apply a text wipe to a line of text, however, we need to select the line we wish to use. As we've only got one line of text, click on that with the left mouse button so that the cursor sits immediately over the title. To access the text wipes menu, click on the blank little square immediately above the 'Show' gadget and a new requester should pop up onto the screen containing lots of little boxes with strange patterns in them. Each of these boxes represents a text wipe. By default, *Scala* doesn't apply a text wipe to any new text that you enter and so the currently-selected text wipe should be the little blank box up in the top left-hand corner.

This text wipe is actually a bit strange because it actually means 'No text wipe'.You're probably dying to know what each effect does but I think I'll leave this for you to discover. After all, the best way to get to grips with anything of this nature is to experiment.

For the meantime, however, click on the box that contains a little arrow that points upwards and then click on the 'Show' gadget. As if by magic, the text wipes requester will disappear and you should be left with a completely empty screen. Hang on a minute, where's our title? Wait for it...

If all went well, your titles should have smoothly scrolled into view from the bottom of the screen. Once you've previewed the effect, *Scala* should then return you to the text wipes menu.

Why not try playing around with the other text wipe effects, simply click on an effect that grabs your fancy and then select 'Show' and *Scala* will automatically tag that effect to your line of titles.

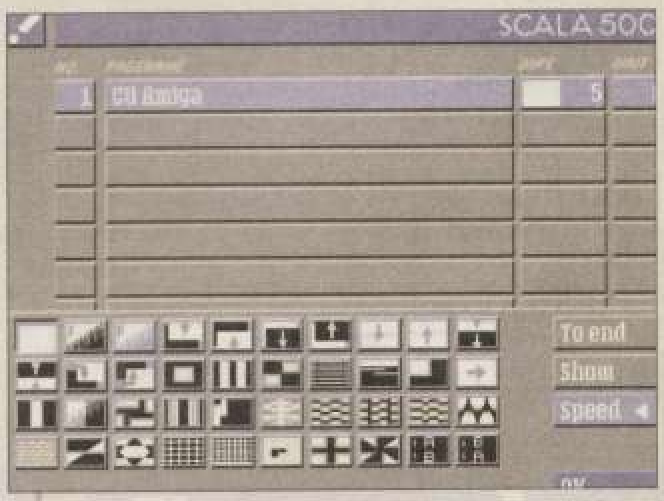
Once you've finished playing, click on the 'Ok' gadget and you'll be returned to the page editor. If you look at the blank gadget that you clicked on earlier to get to the text wipes requester you should see that its gadget imagery has changed to reflect the wipe effect that you last selected.

PAGE PLAY

We've already taken a fairly comprehensive look at the range of 'text wipes' offered by *Scala HVT* but the action doesn't stop here. *Scala* also offers a different type of wipe effect – the page wipe. Unlike text wipes which only effect a single line of text per effect, page wipes effect the page as a whole. The range of effects on offer is just as comprehensive although you may find that some of the effects offered by the text effects menu are not available as page effects.

Accessing these page wipes is very easy indeed. When viewing your presentation from the *Scala* main menu, you'll notice that every page has associated with it a 'Wipe' gadget. Normally this gadget will contain a blank white square with the number '5' next to it but you can easily change this setting simply by clicking on the wipe gadget for the page that you'd like to edit. Clicking on this gadget will bring up the page wipes requester which looks very similar to the text wipes requester with loads of little pattern gadgets arranged in rows and columns.

Applying a page effect to your selected page is very simple indeed. Simply click on the effect that you want and it should be highlighted. Just like the text wipes requester, you can preview your wipe effect by clicking on the 'Show' gadget. Remember that little 'five' that appeared next to the blank box in the wipe gadget on *Scala*'s main menu? Well, this figure denotes how fast the effect is to be performed – a value of five is average but you can easily speed up or slow down most of *Scala*'s wipes by clicking on the left or right arrows on the little gadget labelled 'Speed'.



Page wipes can add a whole new dimension to your *Scala* presentations.

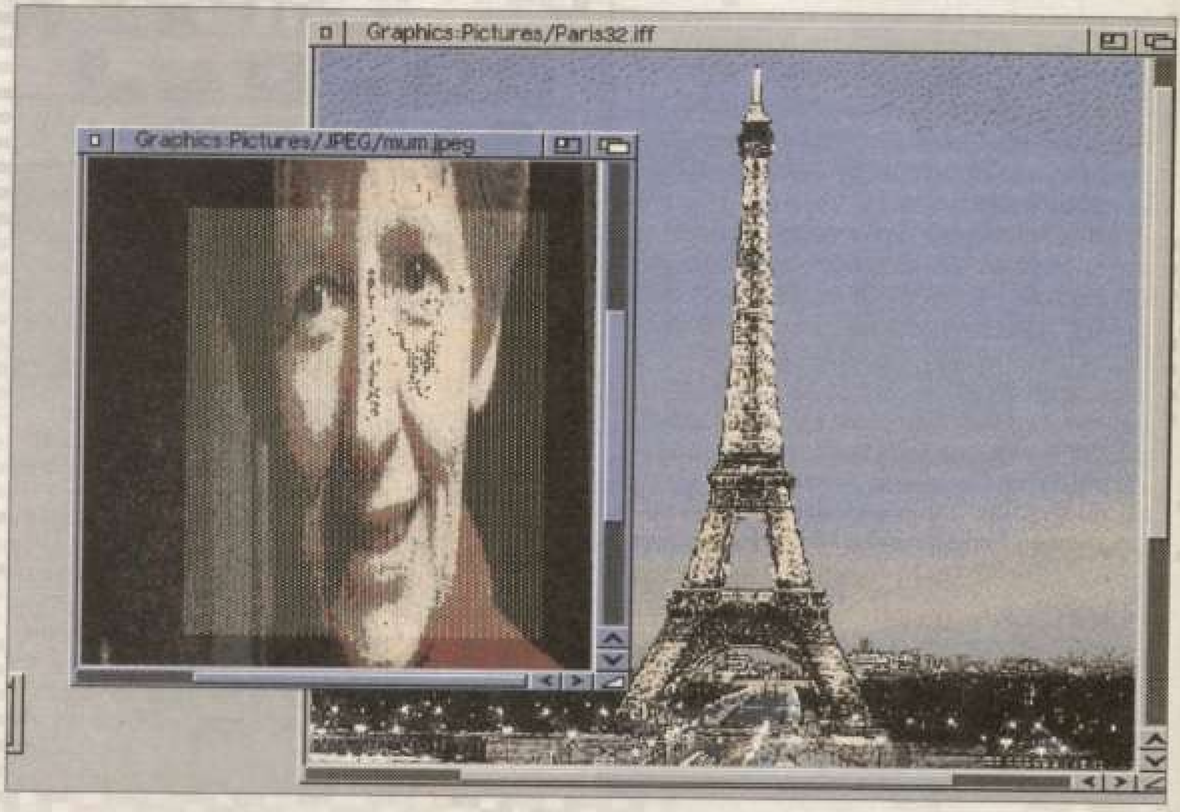
THE AMIGADOS PROBLEM SOLVER

Get the most from your Amiga with John Kennedy, as he looks at some of the more interesting Workbench features.

Not only is the Workbench one of the most powerful multi-tasking environments available today, but it is also incredible easy to configure graphics, colours, pictures and fonts to your own personal preferences.

To give yourself a bit more room to manoeuvre, switch on the background option from the first Workbench menu. This will remove the window that Workbench normally opens on and so free up some space for you.

You might also want to use the Preferences program 'Overscan' to enlarge and centre the screen so that even more space is available. Make sure you save the settings or they will revert back to their original settings when you next boot. You can save the Background option with the menu item 'Snapshot All'.


Graphics:Pictures/Paris32.iff
Graphics:Pictures/JPEG/mum.jpeg

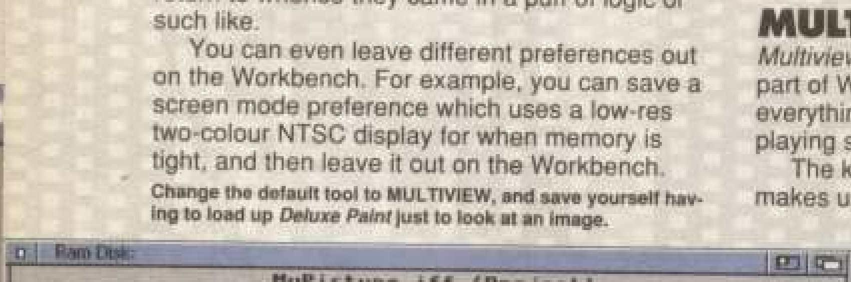
As the Amiga multi-tasks, you can have multiple copies of *Multiview* running. If your images are colourful, up the number of Workbench colours to 256 to do them justice. Notice the Shell icon, left out on the Workbench for ease of use.

LEAVE ME OUT

A powerful feature which can make finding programs on your hard drive a lot easier is the ability to 'leave out' icons on the Workbench. Find a program that you use a lot, say *Deluxe Paint*. Now single click and select 'Leave Out' from the Workbench menu. The icon moves itself to the Workbench, and even when you reboot it will still be there. Now instead of hunting through umpteen drawers you can keep all your important programs on your Workbench, ready for action. To get rid of them, use 'Put Away' and they will return to whence they came in a puff of logic or such like.

You can even leave different preferences out on the Workbench. For example, you can save a screen mode preference which uses a low-res two-colour NTSC display for when memory is tight, and then leave it out on the Workbench. You could click it before running any really memory-intensive programs.

Change the default tool to MULTIVIEW, and save yourself having to load up *Deluxe Paint* just to look at an image.



MyPicture.iff (Project)
Blocks: 3
Bytes: 2374
Stack: 4096
Last Changed: 09-Mar-94 14:58:07
Comment:
Default Tool: Multiview
Tool Types: FILETYPE=ILBM
Script ☐
Archived ☐
Readable ☑
Writable ☑
Executable ☑
Deletable ☑

Ram Disk 100% full, 0K free, 163K in use
MyPicture.iff
ENV
Clipboards
T

MULTIVIEW

Multiview is an amazing program which came as part of Workbench 3.0. *Multiview* can do almost everything, from displaying text and pictures to playing sound samples.

The key to *Multiview*'s versatility is that it makes use of another Workbench 3.0 innovation – Datatypes. A datatype is a special file which contains information on how to process data. For example, a GIF datatype would contain all the information needed to display GIF files (compressed 256 colour image formats common on the PC).

Once the datatype is installed, *Multiview* will automatically make use of it.

Running *Multiview* is easy. Either find the icon in the Workbench Utilities drawer and double click it. Alternatively, use Amiga-E to bring up the short-cut 'execute a file' requester and type *Multiview* [return].

You'll be greeted with an exciting-looking file requester, so select the file you want to examine – a picture or some text for example.

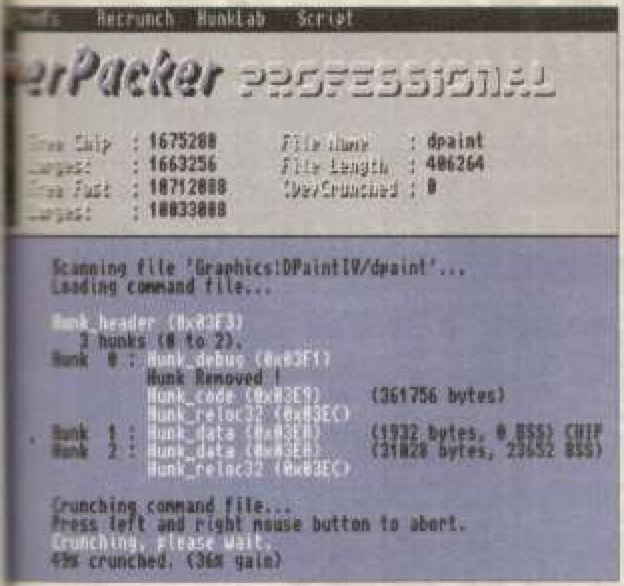
Multiview should open a window to display whatever it is you want to look at. Once the window is open, you can drag other picture icons into it and they will also be displayed. Try dragging a sound sample in and dropping it. Clever, eh?

You can drag files into the file requester, but *Multiview* won't load them – only alter its path names ready for loading. You can also make *Multiview* the default tool for display images Try this: create and save a picture with *Deluxe Paint*. Now quit *DPaint*, and find the icon for the picture. Highlight it, and select Information from the Workbench menu. Delete the part that mentions *DPaint*, and enter *Multiview* instead. Now when you double-click on the picture icon, the image will pop up without having to load *Deluxe Paint*.

When graphics are displayed you can even use the Edit options to snip a piece of the image out. It will be stored in the Clipboard (that is, in Ram:Clipboards/) from where it can be loaded into another paint program.

COMPRESSION

It's one of the many rules in computing that you never have enough storage space. You start with a single floppy, but you soon fill that up so you buy a 40Mb hard drive. That lasts about a week before 'Volume hd0: is full' messages appear and before you know it you've got several gigabytes of disk space and they are still all 99% full. So, if you don't want to chuck everything in the trash-can, data compression is your answer. The choice varies from automatic compression systems or manual-intensive archiving systems.



```
      : 1675288   File Name     : dpaint
      : 1663256   File Length   : 406264
      : 10712088  OverCrunched  : 0
      : 10833088

Scanning file 'Graphics:DPaintIV/dpaint'...
Loading command file...

Hunk_header (0x03F3)
   3 hunks (0 to 2).
Hunk  0 : Hunk_debug (0x03F1)
          Hunk Removed !
          Hunk_code (0x03E9)      (361756 bytes)
          Hunk_reloc32 (0x03EC)
Hunk  1 : Hunk_data (0x03EA)      (1932 bytes, 0 BSS) CHIP
Hunk  2 : Hunk_data (0x03EA)      (31828 bytes, 23652 BSS)
          Hunk_reloc32 (0x03EC)

Crunching command file...
Press left and right mouse button to abort.
Crunching, please wait.
49% crunched. (36% gain)
```

***PowerPacker* will compress all your programs to save space. It's just as useful for hard drive owners as it is for floppy folk.**

PowerPacker is a good automatic compression program. *PowerPacker* will process files, squash them down to roughly half the size, and then add a special de-crunching routine. If you squash *Deluxe Paint* for example, *PowerPacker* will crunch it down from 406264 bytes to 258604 bytes, which is a saving of about 37%. The only disadvantage of the process is that before you can use a decompressed program it has to be expanded back to its original size. This is handled automatically with *PowerPacker* – just click on the *DPaint* icon and it expands and runs while you watch. On an A1200 the time required to expand the program is negligible.

Archivers are slightly more complicated. LHA is a very popular archiving system and any file ending in .lha has been crunched by it. LHA takes its time, but crunches *DPaint* down to 232692 bytes which is a bigger saving than *PowerPacker*. Text files and simply IFF pictures crunch up spectacularly well, sometimes taking up 90% less space.

LHA is only usable from the Shell, and requires a bit of thought. The command, 'lha a Paint DPaint' will create an LHA archive called Paint.lha (the lha is added automatically) and squeeze *DPaint* into it. The program is now no longer a program – it's a data file, and so you can't run it straightaway. You must unarchive it first. To do this enter the following: 'lha x Paint' and the original *Deluxe Paint* will appear as if by magic.

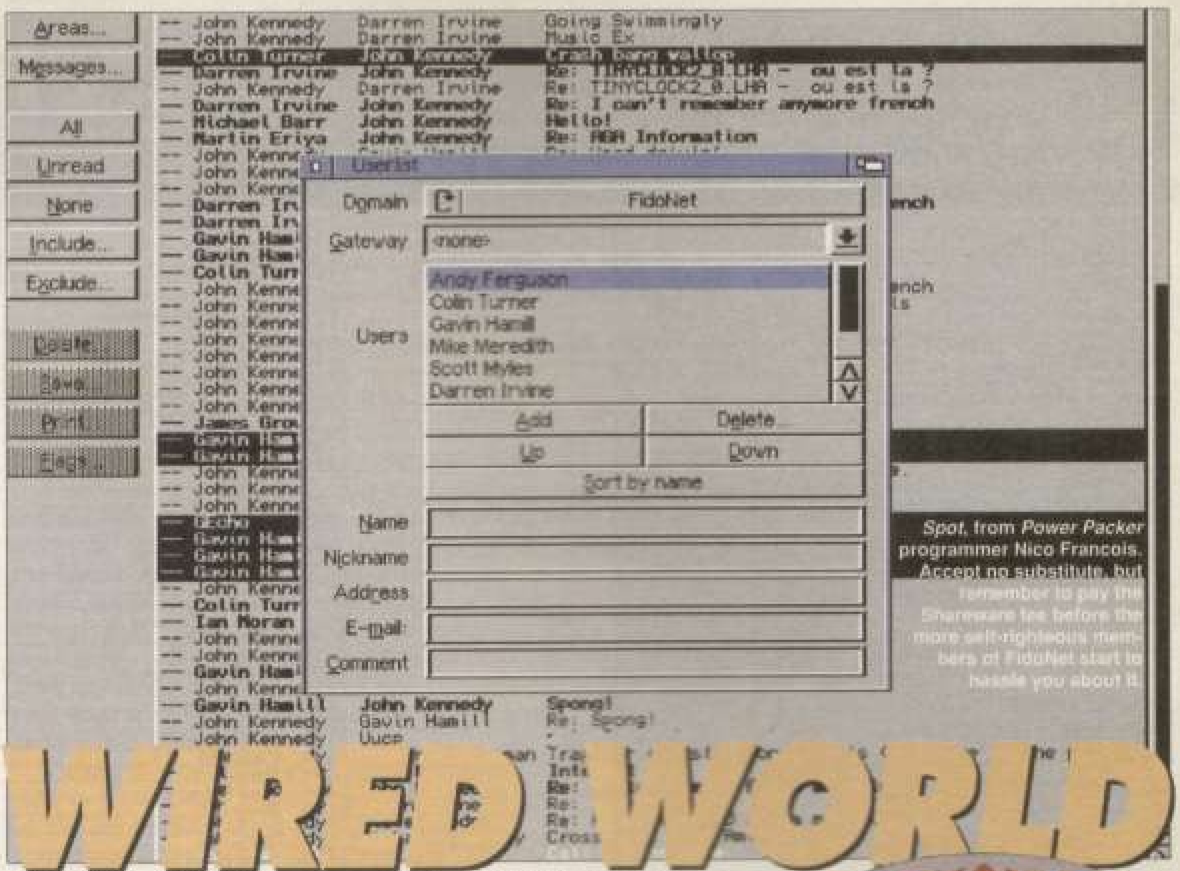
A program like LHA is ideal for storing data and programs which you don't use very often. It's also ideal for sending data via modem, as shorter files mean lower telephone bills.

The compression program DMS is rather a unique program, which has found great popularity amongst magazine coverdisks and CD-ROM public domain software collections. Unlike LHA or *PowerPacker*, DMS concentrates on an entire floppy disk at a time, crunching all the different files and drawers into one huge file. Everything on the original disk is stored including any special bootblocks, which makes it the ideal way to distribute demos and other complicated programs. As you might expect, it can only uncompress data by re-filling an entire floppy.

Both *PowerPacker* DMS and LHA are available from good Public Domain libraries. Remember to pay the shareware fees if you use them a lot. CU

NEXT MONTH

Next month, John Kennedy looks at some Public Domain programs and how they can enhance your workbench..



```
-- John Kennedy    Darren Irvine    Going Swimmingly
-- John Kennedy    Darren Irvine    Music Ex
-- Colin Turner    John Kennedy     Crash bang wallop
-- Darren Irvine   John Kennedy     Re: TINYCLOCK2_0.LHA -  ou est la ?
-- John Kennedy    Darren Irvine    Re: TINYCLOCK2_0.LHA -  ou est la ?
-- Darren Irvine   John Kennedy     Re: I can't remember anymore french
-- Michael Barr    John Kennedy     Hello!
-- Martin Eriya    John Kennedy     Re: AGA Information
-- Gavin Hamill    John Kennedy     Spong!
-- John Kennedy    Gavin Hamill     Re: Spong!
```

Users: Andy Ferguson, Colin Turner, Gavin Hamill, Mike Meredith, Scott Myles, Darren Irvine

Spot, from *Power Packer* programmer Nico Francois. Accept no substitute, but remember to pay the Shareware fee before the more self-righteous members of FidoNet start to hassle you about it.

WIRED WORLD

It's finally happened: CU AMIGA is on-line. Read on to discover how to send electronic mail to your favourite magazine.

FidoNet is an amazing international electronic mail system. For the price of a local call you can send message anywhere in the world. FidoNet has many 'echoes' which are local, national or international conversations on any specific topic. There are echoes on almost every topic under the sun – including the Amiga and Amiga magazines as well as other subjects. Anyone can join in to leave a comment or ask a related question. The Amiga echoes are where you'll find CU AMIGA (surprisingly) in the Amiga-Mags echo. If you are on FidoNet, ask your boss to get Amiga-mags echo for you and then feel free to send your comments directly to us via the echo. You never know, you might even get them published in the magazine. It's worth reading to catch up on all the news and watch the staff from different magazines squabble amongst themselves about cover disk deals and pay rises.

If you want to leave more personal or comments not-directly magazine related, you can send email directly to CU AMIGA care of John Kennedy whose Fidonet address is 2:443/13.4 on the Heart of Gold BBS (Data: 0247 274919).

To get onto FidoNet you need four things: an Amiga (any version will do), a modem (2400 baud or better), a copy of Spot (an excellent message reader program from Nico Francois) and TrapDoor (the program that talks to your modem to transmit and receive mail). The programs are both Shareware and are widely available – ask your favourite PD Library for details. Then all you have to do is call any BBS and ask where your local board is. From then on it's plain sailing... or as near to plain sailing as Comms can ever be.

You can do without Spot and Trapdoor and use an ordinary Comms program (NComm or Term) to access your local Board, but you'll miss out on the money-saving off-line reader options.

Using FidoNet is free – you only pay for your local call, and with a good modem and a program like Spot you can keep the price down to a few seconds a day.

HOT HINTS

*Remember the special BT cheap Weekend rate when logging into boards that are not local.

*When using fast modems, for example the Sportster 14.4K, you must set your baud rate correctly. Don't set it to 14.4K because if you do you'll negate the purpose of the clever data compression present in these modems. Instead, put at 19200, 38400 or 57600 depending on which Amiga you have, don't worry, the modem will know what's going on.

* Numbers preceded with 'Tel:' are normal voice numbers. Numbers preceded with 'Data:' are modem-only numbers.

* TrapDoor, the FidoNet mail packet manager for Amiga, has a UK registration centre. Send a stamped self addressed envelope to Lawrence Freeman, 2 Seaview Villas, Oldminster Road, Sharpness, Gloucestershire GL13 9NB for details or pop him a cheque for £25 with your card number of the back if you know what you're doing. I'm trying to track down a UK address for registering *Spot* – if anyone knows please get in touch.

* Many thanks to Colin Turner at the Heart of Gold.

NEW BOARDS

Sysop James Grove has asked for a plug for his new BBS. It's dedicated to the Amiga and is open 24 hours a day with 600Mb of on-line software available for downloading. It has hundreds of Fido Echoes available plus Internet access and best of all the the entire thing runs on an A4000/030 with a US Robotics V-Terbo modem .

The wonders of Comms means that although the board can work at ludicrously fast baud rates offered by the Terbo, even if you have a 2400 modem you can still join in, so give it a call. The FidoNet address is 2:253/195.0 but you can call direct if you prefer (Data: 0905-621224). CU

NEXT MONTH

More from the whacky wired World of Comms. Send you comments via the Amiga-Mags echo, or directly to John Kennedy at 2:443/13.4.

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BACK TO BASICS WITH BLITZ BASIC 2

As a prelude to our first major *Blitz* games programming project, Jason Holborn unravels the mysteries of blitter modes and double buffering.

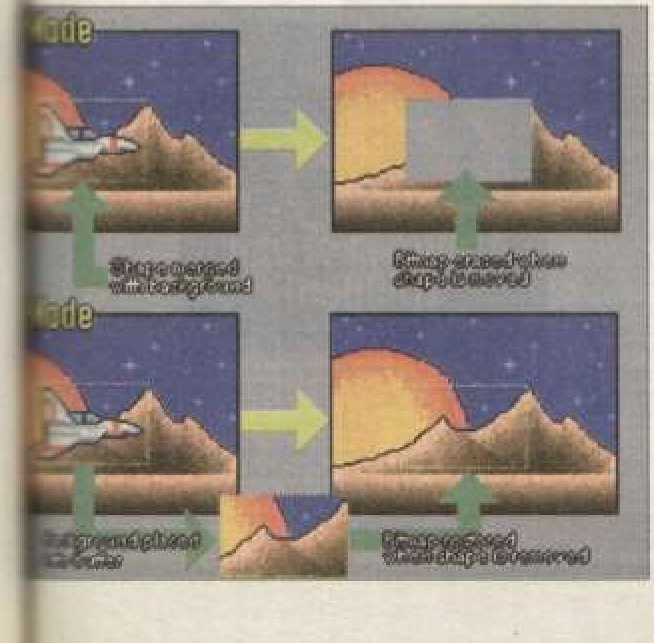
PART 6

Last month, we took our first shakey steps into coding blitter objects (or, as *Blitz* prefers to call them, 'shapes'). Shapes are crucial in games programming as they are essential for animated objects or objects that need to be moved around the screen. So far, however, we've only looked at *Blitz Basic*'s 'Blit' mode which, despite being fast, isn't very practical for moving objects because it doesn't keeps track of where an object has been placed or clean up after itself when the object is moved.

The two other blitting modes on offer, QBlit and BBlit, are far more useful for games programming as they allow you to keep track of your objects. In the case of BBlit mode, *Blitz* will even restore the background bitmap when the shape is moved to a new position (QBlit mode will simply remove the object from its old position leaving a blank space). I had planned on covering both these blitter modes separately but they are so similar that a single combined explanation will suffice.

DIY WITH B&Q

BBlit and QBlit mode are very similar because they both rely on 'stacks' which act as temporary storage areas for shape information. Whenever a shape is blitted onto the screen using either QBlit or BBlit, information on that shape is placed into the appropriate stack. When you want to move all the shapes that you've drawn onto the screen, all you have to do to remove the old shape imagery from the screen is to pass the stack to the appropriate command.


Shape merged with background
Bitmap erased when shape is moved
Background placed in buffer
Bitmap restored when shape is removed

BBlit and QBlit modes are both very useful for games programming but each has its own unique strengths and weaknesses. QBlit mode, for example, does not restore the background bitmap when a shape is removed.

Blitz doesn't actually call the stacks used by shapes 'stacks'. There's a very good reason for this – the stack used by QBlit mode is called a 'Queue' and the stack used by BBlit mode is called a 'Buffer'. Although these two types of stack perform essentially the same job, they hold entirely different types of data – a BBlit 'Buffer', for example, acts as a temporary storage area for the bitmap data which is obscured when the shape is blitted onto the screen (amongst other things). If all this sounds a bit too complicated, don't worry – *Blitz* thankfully handles all the hard work of managing these buffers and queues for you, so you can get on with the important job of writing your game!

Before you can even think about using either BBlit or QBlit mode, you need to start by setting up the appropriate stack – a 'queue' for QBlit operations and a 'buffer' for BBlit mode. The commands to create queues and buffers are as follows.

Queue NUMBER, MAXITEMS
Buffer NUMBER, MEMORY

NUMBER - The 'Number' parameter defines the identification number of the particular queue or buffer that you are creating. You can use several queues within a game, which is very handy if your game uses a large number of objects as you can split the objects up into groups and then update each group during its own frame.

MAXITEMS - The 'MaxItems' parameter is used by the 'Queue' command to define how many shapes the queue will be able to accommodate. The size of this parameter will depend entirely upon how many shapes your game uses.

MEMORY - Whereas a Queue holds co-ordinates, a buffer holds bitmap data which uses quite a lot of memory. The 'Memory' parameter defines how much memory is set aside as a temporary storage area for the bitmap data used up by the shapes that you draw onto the screen. How much memory you decide to allocate to the memory parameter is up to you, but a value of 16000 (16k) seems to suffice for even the most demanding games.

A BLIT ON THE SIDE

Once you've defined your queue or buffer, you can then blit a shape onto the screen using the appropriate blitting mode. *Blitz Basic* automatically manages the queue or buffer that the shape is placed into, so you don't have to worry about increasing any stack pointers or such the like. All you do is to draw your shapes onto the screen and *Blitz* will automatically update the queue or buffer. The commands to draw shapes using these two blitting modes are as follows.

QBlit QUEUENUM, SHAPE, X, Y
BBlit BUFFERNUM, SHAPE, X, Y

QUEUENUM - The 'QueueNum' parameter is a value that denotes the identification number of the queue that the position of the object is to be stored in. As discussed earlier, the queue must first be created using the 'Queue' command.

»

```
;listing
; *** QBlit mode demonstration
; *** By Jason Holborn for CU Amiga

BLITZ

BitMap 0,320,256,2

; *** Draw ball and then grab it as a
shape...
Circlef 8,8,8,1
Circlef 8,6,6,2
Circlef 8,4,4,3
GetaShape 0,0,0,18,18
Cls 0

Slice 0,44,2

SPEED=10 : NUMBALLS=20

Queue 0,NUMBALLS

; *** Define data structure for balls...
Dim BALL(NUMBALLS,4)

For C=0 To NUMBALLS-1
BALL(C,0)=0
BALL(C,1)=-8+Int(Rnd(200))
BALL(C,2)=Int(Rnd(SPEED))+1
BALL(C,3)=Int(Rnd(SPEED))+1
Next C

Repeat
For C=0 To NUMBALLS-1
; *** Update position of ball
BALL(C,3)=BALL(C,3)+1
BALL(C,0)=BALL(C,0)+BALL(C,2)
BALL(C,1)=BALL(C,1)+BALL(C,3)

; *** Has ball hit ground?
If BALL(C,1)>220
BALL(C,1)=220
BALL(C,3)=-BALL(C,3)
End If

; *** Has ball reached right hand side
; *** of screen?
If BALL(C,0)>288
BALL(C,0)=288
BALL(C,2)=-Int(Rnd(SPEED)+1)
BALL(C,3)=Int(Rnd(SPEED)+1)
End If

; *** Has ball reached left hand side
; *** of screen?
If BALL(C,0)<0
BALL(C,0)=0
BALL(C,2)=Int(Rnd(SPEED)+1)
BALL(C,3)=Int(Rnd(SPEED)+1)
End If

If BALL(C,1)>-1
QBlit 0,0,BALL(C,0),BALL(C,1)
EndIf
Next C

VWait

Show 0,0,0

If Joyb(0)=1 Then QUIT=1

; *** Remove old shapes from screen...
UnQueue 0
Until QUIT=1
```

» ***BUFFERNUM*** - The 'BufferNum' parameter defines the identification number of the buffer that holds the background bitmap data when a shape is being drawn onto the screen.
SHAPE - The 'Shape' parameter tells *Blitz* which shape from those currently loaded into memory will be drawn onto the screen. Be careful with this parameter because *Blitz* will not warn you if you pass the number of a shape that hasn't been defined, instead you'll get is some wonderful wire-works (ie your machine will crash) when your program is run!
X/Y - The 'X' and 'Y' parameters define where on the screen the object is to be 'blitted'. Just like AMOS, *Blitz* uses an object's 'handle' (the origin point of the shape) and so the same shape with different handle settings will appear at different positions on the screen.

BLITTERING BALLS

Let's get stuck into a demonstration listing. The listing to the right uses another new command that we haven't as yet covered – GetaShape. GetaShape is an alternative method of building a shapes bank in memory. Instead of having to load all your shapes from disk, GetaShape will allow you to literally 'grab' your shapes from the current bitmap. If you find that the program runs a little jerkily, try turning off runtime optimisation from the 'Options' requester.

DOUBLE ENTENDRE

Once you've entered the above code, select 'Compile/Run' from the Compiler pull down menu and after a few seconds you should see lots of lovely balls bouncing around the screen. Very impressive. Well, not quite, if you look very carefully, you'll notice that most of the balls appear to flicker and some aren't even drawn at all. What's happening? I'll explain...

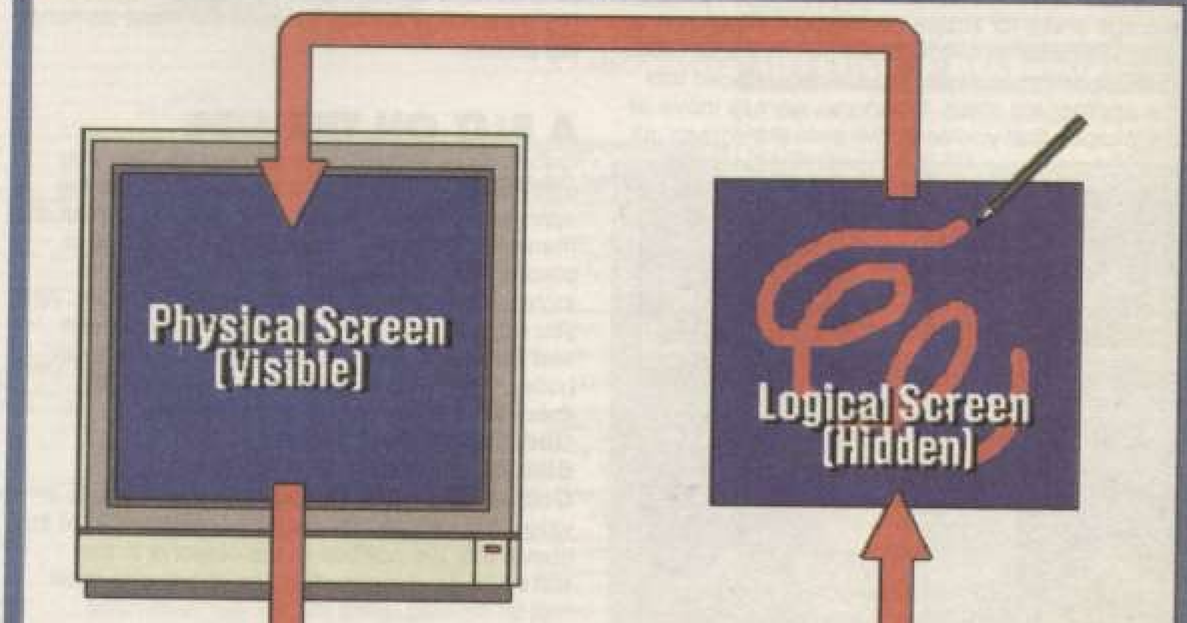
If you're writing a complex game or demo, there are times when even the fastest computers can't handle the task of updating a screen completely during a single frame (this produces the flicker) and so programmers use a very clever system called 'Double Buffering' to ensure that screen redraw is kept silky smooth. Double Buffering works by 'doubling up' a screen so that it is made up of two separate bitmaps. Whilst one bitmap is being displayed on your monitor or TV screen, the other bitmap is used for all blitting operations. This hidden bitmap is called the 'logical' screen whilst the bitmap you can see on your TV or monitor is called the 'physical' screen.

Once all your drawing operations are complete (all the shapes have been redrawn at their new screen positions, for example), the physical and logical screens are swopped over so that the logical screen is displayed on your monitor and the physical screen is hidden from view. At this point, the old physical screen becomes the new logical screen and vice-versa. You then perform all your drawing operations into the new logical screen and the process continues. Although double buffering doubles the amount of memory that a screen will eat up, the smoothness is worth the memory penalties.

BUFFERS

Unlike AMOS, *Blitz Basic* doesn't have inbuilt double buffering commands, so it's down to the programmer to manually incorporate double buffering. This isn't as hard as it sounds – all you need to do is to create two identical bitmaps and then swop between them simply by passing a different bitmap number to the 'Show' command each time the screen is completely redrawn. Give the heavily modified version (in box out) of our earlier demo a whirl and just see the results. CU

```
/listing
; *** Double buffering demonstration
; *** By Jason Holborn for CU Amiga

BLITZ

; Rem *** Define two identical bitmaps...
BitMap 0,320,256,2
BitMap 1,320,256,2

; *** Draw ball and then grab it as a
shape...
Circlef 8,8,8,1
Circlef 8,5,6,2
Circlef 8,4,4,3
GetaShape 0,0,0,18,18
Cls 0

PHY=0 : ; *** Physical (visibal) screen
pointer
LGC=1 : ; *** Logical (hidden) screen
pointer

; *** Show the current physical screen...
Slice 0,44,2
Use BitMap PHY
Show PHY,0,0

SPEED=10 : NUMBALLS=20

Queue 0,NUMBALLS
Queue 1,NUMBALLS

Dim BALL(NUMBALLS,4)

For C=0 To NUMBALLS-1
    BALL(C,0)=0
    BALL(C,1)=8+Int(Rnd(200))
    BALL(C,2)=Int(Rnd(SPEED))+1
    BALL(C,3)=Int(Rnd(SPEED))+1
Next C

Repeat

   ; *** Make sure QBlit draws into hid-
den bitmap...
    Use BitMap LGC

    For C=0 To NUMBALLS-1
        ; *** Update position of ball
        BALL(C,3)=BALL(C,3)+1
        BALL(C,0)=BALL(C,0)+BALL(C,2)
        BALL(C,1)=BALL(C,1)+BALL(C,3)

        ; *** Has ball hit ground?
        If BALL(C,1)>220
            BALL(C,1)=220
            BALL(C,3)=-BALL(C,3)
        End If

        ; *** Has ball reached right hand
side
        ; *** of screen?
        If BALL(C,0)>288
            BALL(C,0)=288
            BALL(C,2)=-Int(Rnd(SPEED)+1)
            BALL(C,3)=Int(Rnd(SPEED)+1)
        End If

        ; *** Has ball reached left hand
side
        ; *** of screen?
        If BALL(C,0)<0
            BALL(C,0)=0
            BALL(C,2)=Int(Rnd(SPEED)+1)
            BALL(C,3)=Int(Rnd(SPEED)+1)
        End If

        If BALL(C,1)>=1
        ; *** Draw shape using que
        QBlit LGC,0,BALL(C,0),BALL(C,1)
        EndIf
    Next C

   ; *** Swop physical and logical point-
ers...
    If PHY=0
        LGC=0:PHY=1
    Else
        LGC=1:PHY=0
    EndIf

    VWait

    ; *** Show new screen...
    Show PHY,0,0

    If Joyb(0)=1 Then QUIT=1

   ; *** Remove old shapes from screen...
    UnQueue LGC
Until QUIT=1
```



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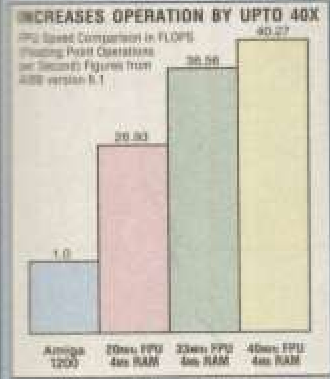

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Take a tiger, load up *ADPro* and then press F1, turn to page 161 to see what you get and...

AREXX

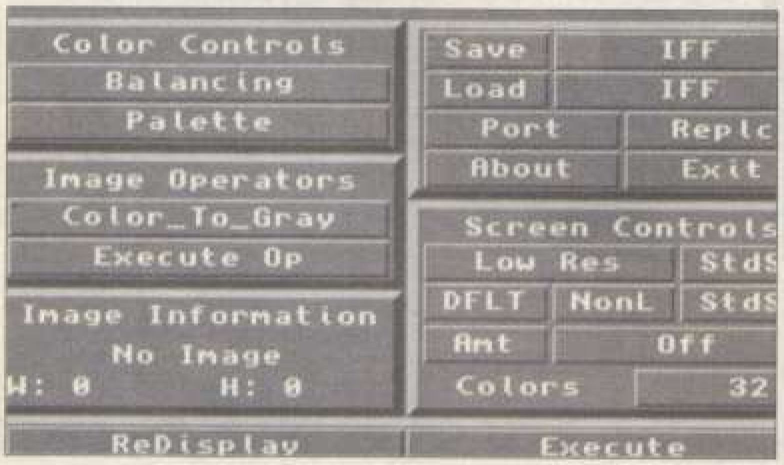
If you find your image processing sessions time-consuming then why not let *ARexx* do the hard work for you? Dave Smithson shows you how...

INSIDE AREXX

PART 6

Image processing can be a long drawn out process on the Amiga. However, by using *Arexx* you can save a lot of time and inconvenience. For example, converting 20 IFF 640 x 256 pixel HAM8 images to 256 colour 320 x 200 PICT files may sound like a simple enough job if you have *ADPro*, but there's actually quite a bit of work involved. First of all, you have to load the image into *ADPro* and once it's in memory, it must then be scaled down in size from 640 x 256 pixels to 320 x 200 using *ADPro*'s 'Scale' operator.

Once this is done, the number of colours needs to be reduced from HAM8 (that's 262,144 colours) to just 256. Finally, you have to save the image off to disk in PICT format. If you count the number of operations required to process a single image, that's four operations – multiply this by 20 (don't forget there's 20 images to be processed!) and that's eighty operations in all – quite a bit of mouse clicking by anyone's standards!



Automating *ADPro* with *ARexx* can remove the drudgery of complex image processing tasks.

This wouldn't be so bad if you didn't have to wait for an image processing program like *ADPro* to do its stuff as well. Scaling an image from 640 by 256 pixels to 320 by 200 pixels takes a long time, even on an accelerated Amiga and so a task such as the one detailed above could take up to an hour to complete (if not longer!). Being the creative types that Amiga owners are, this really is valuable time being wasted. So how can *Arexx* solve this problem, read on...

AREXX UNDER CONTROL

ADPro is possibly the most 'ARexxable' application available (ie it can be controlled indirectly by *ARexx*, allowing you to perform the same tasks without having to actually click on gadgets or select menu options.) In *ADPro*, every option that the program has can be controlled by *Arexx* and there are even some options which can only be accessed by *ARexx*.

IMAGE FACTORY

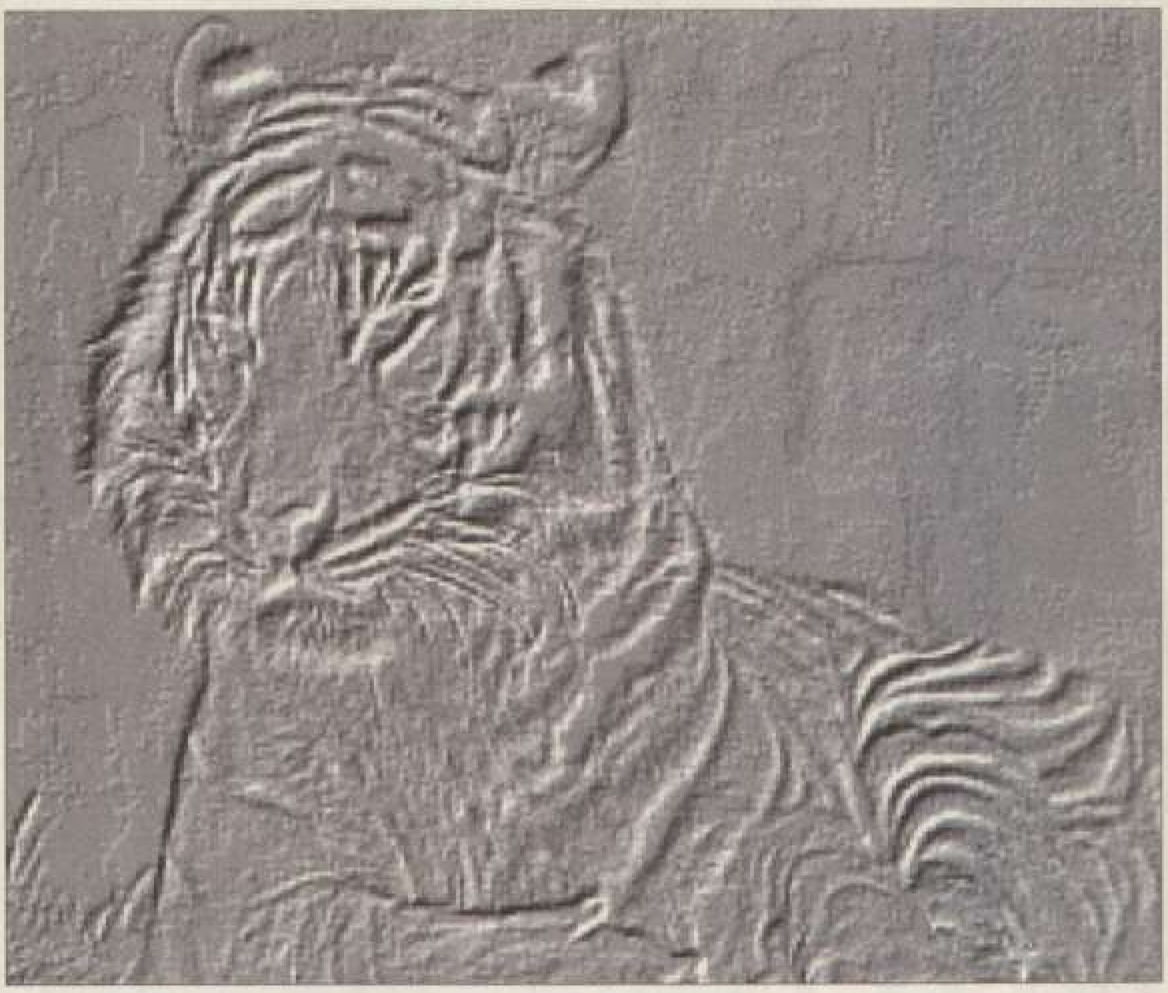
The easiest way to get to grips with any complicated subject is to try it for yourself so let's start by taking a look at the script that will handle the image processing job we discussed earlier – converting 20 IFF 640 x 256 pixel HAM8 images to 256 colour x 200 PICT files. Type the following listing in using any standard ASCII text editor (*Cygnus Ed*, for example) and then save it off to disk as 'f1.adpro' in the 'S' directory of your boot disk. Load up *ADPro* and then press the 'F1' key to run it. If all went well, a file requester should pop up onto the screen from inside *ADPro* prompting you to select the image files you wish to process. The *ADPro* file requester supports 'multiple selection' — just hold down the 'SHIFT' key and click on every file that you wish to process. Once this is done, click on the 'OK' gadget and our *ARexx* script will do the rest. Anyway, here's the listing...

```
/listing
*/
ARexx Demonstration script
By Dave Smithson
*/

Options Results
Address "ADPro"

LFormat "IFF"
SFormat "PICT"

GetFiles
If RC=0
/* How many files? */
FILELIST = ADPRO_RESULT
Count = Words(FILELIST)

Do c=1 to Count
/* Get filename and then load... */
Filename = Word(FILELIST,c)
Load Filename

/* Scale image... */
ABS_SCALE 320 200

/* Convert to 256 colours */
RENDER_TYPE "256"
Execute

/* Save image to disk... */
Filename = Filename".PICT"
Save Filename IMAGE
End
Exit
```

The core of the above listing is standard *ARexx* code but you'll notice a number of instructions that aren't in the main *ARexx* command set. These are *ADPro*-specific commands that call up *ADPro*'s built-in functions. If *ADPro* is not running, these commands will not work.

The first *ADPro*-specific commands used within the above script are 'LFormat' and 'SFormat' which set the load and save file formats that *ADPro* will use when loading and saving images.

The file formats themselves are passed as strings — "IFF" selects the IFF loader, "PICT" selects the PICT saver and so on. The next *ADPro*-specific command is 'GetFiles' which instructs *ADPro* to bring up the file requester. Any files that you select are placed into the ARexx internal variable 'ADPRO_RESULT' — these filenames are then placed into the variable



... you get this embossed tiger. Who needs a stonemason when you've got *ADPro*!

'FILELIST' and extracted a filename at a time using the *ARexx* 'Word()' function.

The hard work is handled inside a loop that processes each image one at a time. After loading the image into memory with the imaginatively named 'Load' function, the image is then scaled with the 'SCALE_ABS' function. Once this is done, the number of colours is set to 256. This won't have any effect, however, until the image data is rendered so we call the 'Execute' function – this is the equivalent to clicking on *ADPro*'s 'Execute' gadget. Finally, the image is saved off to disk and another image is loaded into memory. The whole process is then repeated until all the selected files have been processed.

This demonstration listing does illustrate how to write *ADPro /ARexx* scripts very well. The listing in the next column is a better example as it performs a very interesting, yet quite complicated image processing task – image embossing.

Type it in and save it off as 'F1.adpro' and then press the 'F1' key from within ADPro to actually run it. Like our first listing you'll be prompted to select a file to emboss. After a minute or so of processing, the selected image will then be embossed and saved off to disk with a '.embossed' file extension. Give it a whirl!

```
/listing
/*
Image Embossing Script
Written by Dave Smithson
*/

Options Results

Address "ADPro"

LFormat "IFF"
SFormat "IFF"

Getfiles

If RC = 0 then
Filelist = ADPro_Result
FileCount = Words(Filelist)

Do Counter=1 to FileCount
Filename = Word(Filelist,Counter)
SFilename = Filename".embossed"

Load Filename

Operator "negative"
/* Offset X1, Y1 with 50% mix */
Load Filename 1 1 50

Operator "color_to_gray"
Contrast 50
Execute
Adpro_Display

Save SFilename IMAGE
End
Exit
```

So how does it work? Well, it's not quite as complicated as it first seems. The script starts by turning on *ARexx*'s ability to read return values from a command host. A communications link with the host is then made using the 'Address' command. Once this is done, the first two host-specific commands are sent to *ADPro* – LFormat and SFormat.

The filenames of the files to be processed are then obtained via the *ADPro* file requester. If at least one file was selected, the *ARexx* internal variable 'RC' will contain a value of zero. In order to make sure that we don't try going any further if the user didn't actually select a filename, the value held in the 'RC' variable is checked. If 'RC' does indeed contain a value of zero, we can proceed. The first thing we need to do is to extract the list of filenames from the ADPro internal variable 'ADPRO_RESULT'. This is very important as the string held inside this variable could change when another *ADPro* function is called by our script. The number of filenames is then calculated by counting the number of filenames in the list we have just extracted.

The script then enters a simple loop that is performed once for every filename selected. Each filename is extracted one at a time and the filename for the save operation is produced by appending an '.emboss' extension onto the end of the file. The image is then loaded into memory using the ADPro 'Load' function. If all went well, the image should then be in memory waiting for further processing.

The loaded image data is then converted to a negative image (producing an image a bit like a photographic negative) by calling the ADPro 'Negative' operator. Note how the 'Negative' function is called using the 'Operator' command — this allows ADPro to be extended with additional operators without having to extend ADPro's ARexx command set – the 'Operator' function passes control to the named operator along with any parameters which might follow it.

With the image converted to a negative, the same image is loaded again directly on top of the old image but at a slight offset of one pixel along both axii. Normally this would completely obscure the negative image but this time we load the image with 50% mix. This gives both images equal influence.

Once this is done, the image is then converted to a grey scale and the contrast pepped up considerably before the image is finally rendered. After displaying the image on the screen, the final result is then saved off to disk.

FILENAMES AND EXTENSIONS

ARexx scripts can be run from both within ARexx itself or directly from the Shell. In both cases, *ADPro* must be running if the script is to be executed correctly. We won't actually be writing any Shell-based scripts so don't worry too much about this – suffice to say that these scripts are run (using the 'RX' program) just like any other Shell-based *ARexx* script. A much more useful way of running *ARexx* scripts is to run them from within *ADPro* itself. *ADPro* allows you to attach script files to the Amiga function keys. In all, up to 50 scripts can be attached and run from within *ADPro* simply by pressing the correct key combinations.

ARexx scripts are attached to function keys by giving them a filename which corresponds to a filenaming convention set down by ASDG. For starters, all the scripts that you'd like to attach MUST end in '.adpro'. In turn, this must be preceded by a 'key code' which tells *ARexx* which script to run when a particular key combination is pressed. These 'key codes' are as follows.

Fn - (Where 'n' is a value between one and nine. The 'F10' key is accessed by passing a value of zero). This key code tells *ADPro* that the script should be run when only the appropriate function key is pressed. A filename of 'F1.adpro', for example, would cause the *ARexx* script to be executed whenever the 'F1' key was pressed from within *ADPro*.

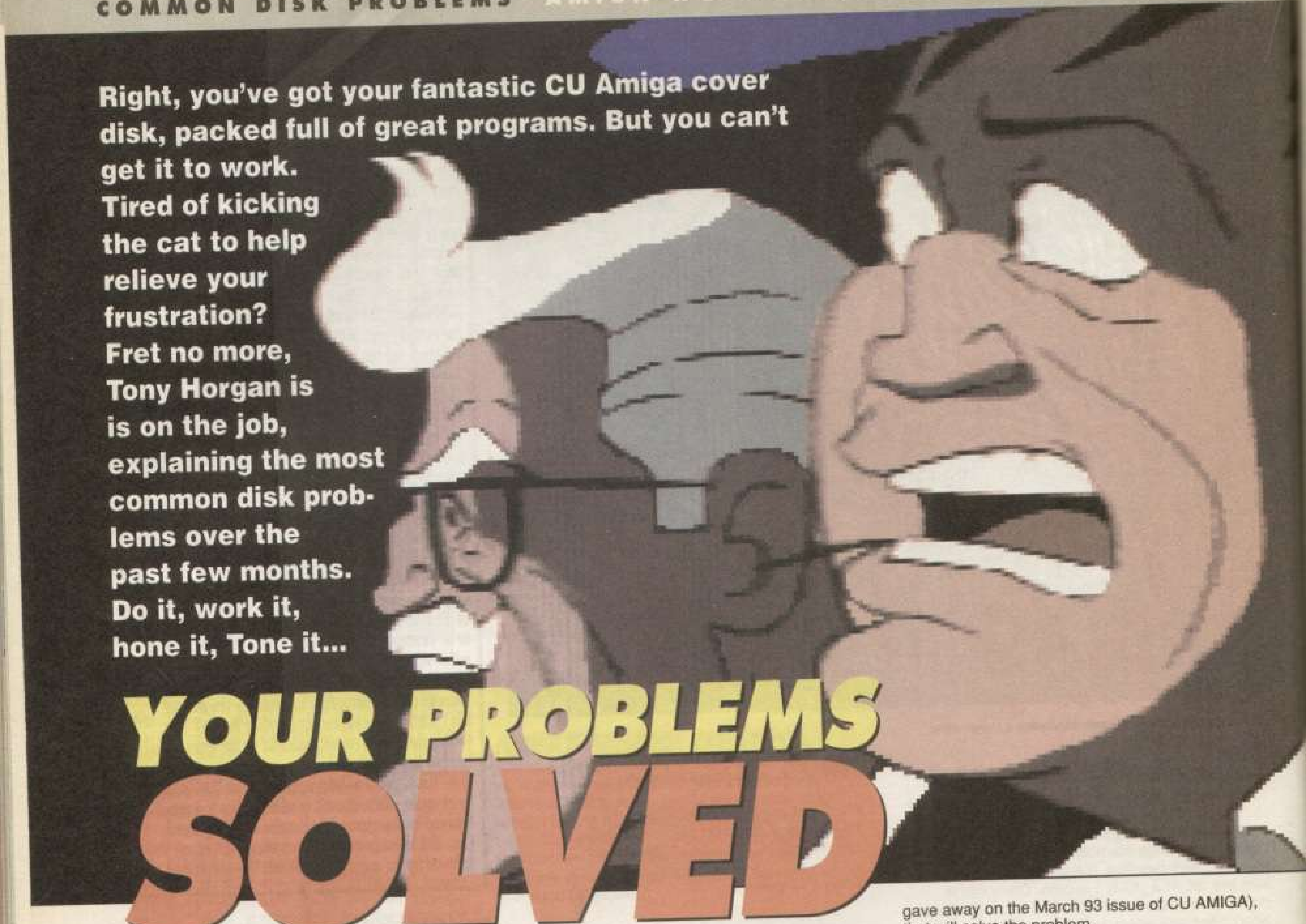
SFn - This keycode will run scripts when the 'SHIFT' key followed by the appropriate function key are pressed.

LFn - This keycode will run scripts when the 'ALT' key (which one doesn't matter) followed by the appropriate function key are pressed.

AFn - This keycode will run scripts when an 'AMIGA' key (once again, *ADPro* doesn't mind which one is pressed) followed by the appropriate function key are pressed.

CFn - This keycode will run scripts when the 'Control' key followed by the appropriate function key are pressed.

This is the final instalment of Dave Smithson's *Arexx* tutorial.



Right, you've got your fantastic CU Amiga cover disk, packed full of great programs. But you can't get it to work. Tired of kicking the cat to help relieve your frustration? Fret no more, Tony Horgan is is on the job, explaining the most common disk problems over the past few months. Do it, work it, hone it, Tone it...

YOUR PROBLEMS SOLVED

We take extreme care and many hours ensuring that the programs on our disks work properly on all Amigas, but there seem to have been few recurring problems. This page is devoted to trouble-shooting some of the more common coverdisk enquiries.

INSTALLING ADORAGE

If you found that the installation script for Adorage (CU AMIGA April 94 issue) didn't work, you weren't alone. In order to get the program to fit on the disk, a number of auxiliary files were deleted. This makes no difference to the running of the program, but the installation script falls down when it can't find the deleted files.

The solution is to alter the installation script, and take out the lines referring to the missing files. Boot from your hard drive, open a CLI or SHELL window, and put your expanded Adorage disk in the internal drive. Now enter ED DF0:ADOINSTALL [return]. Now delete the following lines:

```
Copy Adorage:Script.info <Dev>Adorage.info
Copy Adorage: Script.info <Dev> Adorage/Script.info
Copy Adorage:SSA-Anim.info <dev>Adorage
Copy Adorage: SSA-anim/#? <Dev>Adorage/SSA-anim all
Copy Adorage: Images/#? <Dev> Adorage/Images all
Copy Adorage: SSAPlay <Dev> Adorage
Copy Adorage: SSAPlay.info <Dev> Adorage
Copy Adorage: SSADemo <Dev> Adorage
Copy Adorage: SSADemo.info <DEV> Adorage
Type AdoHD/ HDInstall1.MSG
```

Once you've deleted those lines, press the ESCAPE key, followed by the X key, and then press RETURN. This will save out the altered installation script. You can now execute the script by making the boot partition of your hard drive the current directory (type CD HD0: [return], or replace HD0: with the name of your hard drive's boot partition). Now type EXECUTE DF0:ADOINSTALL [return]. The script should now install the Adorage program onto your hard drive.

WEIRD SCIENCE – OPTICS

The Optics program that simulates experiments with light beams and lenses (CU AMIGA March 94 issue) crashes on some Kickstart 2 Amigas. If you had this problem, send us your name and address on a postcard to Optics Fix Disk, CU AMIGA, 30-32 Farringdon Lane, London, EC1R 3AU. We'll send you back a disk and cover sheet that details how to get the program working properly. If you happen to have a copy of Relo-Kick 1.3 (which we gave away on the March 93 issue of CU AMIGA), that will solve the problem.

SOFTWOOD FILE II GS

Many readers had problems loading and saving files with this database (CU AMIGA March 94 issue). The problem is with the path and filename selection. There's absolutely nothing wrong with the software. The easiest solution is to save your data to a blank formatted disk in the internal drive. In this case what you need to do is select SAVE from the file menu, and then click in the box that appears. Delete ALL letters and symbols in the box, and replace them with DF0:MYFILE.FLR

Make sure you have a blank formatted disk in the internal drive, and that's DF *zero* not DF and a letter "O". Click on the OK button and your file will be saved out. You can change the MYFILE part of the text to any name you wish.

CRAFT INSTALLATION

Although Craft will install itself fine on all machines, it has trouble creating its disk of example programs on Kickstart 1.3 machines. This won't stop you using the extra commands and features that Craft adds to your AMOS system, but you won't be able to examine the example programs. As the installation program is not a standard AmigaDos script, there's no way you can alter it yourself to get it working. The programmers of Craft are currently beavering away on a fix for the installer, which you should see on one of the June issue's coverdisks. CU

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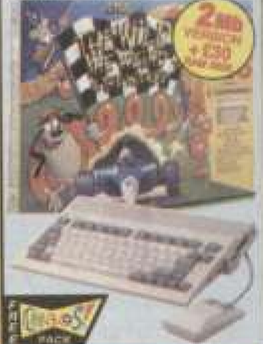

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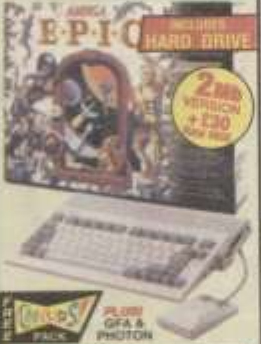

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RACE 'N' CHASE

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2Mb	340Mb	£699

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2Mb	200Mb	£599
2Mb	340Mb	£749

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AMIGA 1200 SPECIFICATIONS
- 68020EC Processor - 14.19MHz Clock Speed
- 32-bit Architecture/2Mb Chip RAM
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- AA Chip Set/16.8 Million Colours
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- PCMCIA Smart Card Slot
- 96 Key Keyboard with Numeric Keypad
- 2½" Internal IDE Hard Drive Options
- 1 Year On-site Warranty

HARD DRIVE OPTIONS
- Approved 2½" Hard Drives
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- Look for Special 'Official Upgrade' sticker

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INCLUDES:
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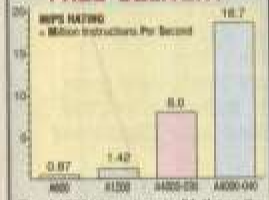

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AMIGA 4000
CONFIGURATIONS

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RAM upgrades are also available from Silica. Due to current fluctuations in the market, please call for upgrade prices.

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RAM	HD	Price
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4Mb	130Mb	£1099
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6Mb	540Mb	£1499

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RAM	HD	Price
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25MHz 68040 SCSI TOWER

RAM	HD	Price
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FOR A500 or A500PLUS

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- Enables your Amiga 500 to run CDTV software
- Plays normal audio CD discs
- Storage capacity equal to 600 floppy disks
- Transfer time 153Kb/second
- Compatible with CD + G and CD + MIDI formats
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- Some old A500s need modification - [illegible]

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November 1992
Cover: A4000.
On Disk: Videoscape 3D animation package plus playable demos of Legends of Valour and Sword of Honour.
Inside: Amiga 4000 first test, which Amiga should you buy? Lethal Weapon and Shadowlands and Office 2 reviewed.

December 1992 - Sold out!

January 1993 - Sold out!

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March 1993 - Sold out!

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July 1993
Cover: Full motion video.
On Disk: Workbench Management System v2.0, plus playable demos of The Patrician and F1 Challenge.
Inside:Full Motion Video examined. Syndicate, Ishar 2 and Dune II reviewed, plus Vista Pro 2 and buyers guides to DTP packages and joysticks.

August 1993
Cover: CD32.
On Disk: Interword, a completely spiffing word processor, plus a playable demo of Virgin's Apocalypse.
Inside: Muscle Up - a roundup of RAM expansions, V-Lab digitising system, Deluxe Music Construction Set 2.0, Brutal Sports, Jurassic Park.

September 1993
Cover: Amiga animation made easy.
On Disk: Gold Disk's Advantage - an accounts and finance package, plus exclusive (naturally) demos of Soccer Kid and F117A.
Inside: A guide to buying and using animation packages, plus a guide to monitors, and reviews of Personal Paint 2.1, Amos Pro Compiler and Soccer Kid.

October 1993
Cover: Star Trek 25th Anniversary
On disk: Flexidump 2.5 - the ultimate image processing and printing tool, plus playable demos of Wonderdog and Mean Arenas (1Mb only).
Inside: A meeting of minds – CU chairs an Amiga user's debate. Star Trek 25th and Space Hulk reviewed plus Digital Creations.

November 1993
Cover: Frontier.
On Disk: The absolutely superb graphics/DTP package, ExpertDraw (1Mb only), plus unbelievably brilliant demos of Frontier, Qwak and Magic Boy.
Inside: Gummph! There's an extra magazine included - a complete guide to the Amiga, plus tons of hardware and software reviews, including Frontier.

December 1993
Cover: Amazing!
On disk: Aegis Animator – the animation program and Spectracolour, plus demos of Turrican 3 and The Settlers. Wow!
Inside: Exclusive 52 page Deluxe Paint guide, Christmas buyers guide, Microcosm on CD32, Terminator 2 Arcade Game, Alien Breed 2 and The Settlers.

January 1994
Cover: Animation and graphics special.
On Disk: Sensible Software's Shoot 'em up Construction Kit , Font Grabber, plus a fully playable demo of Mortal Kombat (1Mb only).
Inside: Dpaint vs Brilliance: the showdown, Vidi 12/24 RT, MediaPoint multimedia, Beneath a Steel Sky, Cannon Fodder, Zool 2.

February 1994
Cover:Scala/Multimedia.
On disk:Scala, the top rated home video titler (1Mb only), plus a completely fab demo of Simon the Sorcerer (1Mb only).
Inside:Scala: the multimedia controller, plus reviews of Fractal Pro 6.0, Craft, Aladdin 4D, Goblins 3, Simon the Sorcerer and Skidmarks.

March 1994
Cover: Don't get lost in multimedia.
On Disk: Softwood File database and Craft, an Amos programming extension, plus a completely spiffing demo of K240 (1Mb only).
Inside: Full Motion Video evaluated, VideoMaster vs Sound and Vision and TV Paint 2 reviewed, plus Manchester United and super Methane Bros.

NB: Offers and advertisements may be out of date when you order a back issue.

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FOR AMIGA 1500 & 2000

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Maths Co-Pro.	68882 included	In 68040 processor
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FOR THE AMIGA 500 & 500PLUS

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Q
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The Dream Team of Andy and John consider more of your testing Amiga problems as they fight over who gets to answer the questions on printers.

HERE THEY ARE FOLKS - THE Q&A TEAM

JOHN KENNEDY

John has recently had an accelerator grafted onto his brain, which means he can now think twice as fast as he normally does. That's no mean feat.

ANDY LEANING

"There's more to life than computers" says Andy. "There's erm... erm... erm... Okay, I give up. Shut up and pass me some more letters to answer."

DANGER! DANGER!

I recently upgraded to an A1200 with a hard disk, and very nearly did a Low Level Format while trying to add more partitions: I honestly thought it was something like Quick Format. However, from what I read in your mag I could have destroyed my drive! Could you please tell me what possible use is the Low Level Format, because if it damages my drive I can't understand why it is there in the first place.

Also, do I need more memory for certain programs such as *Wordsworth*, because I can't print any documents which have pictures as well as text. I just get a 'not enough memory' message. Do I need a 4Mb or 8Mb expansion?

Also, what is the difference between a 50MHz 8Mb memory expansion board, and a 50MHz 8Mb accelerator card. Do they both do what I want?

Zoe Carol, N. Wales.

Yes, a Low Level Format would have permanently destroyed your drive, and here's why. SCSI (Small Computer Systems Interface) was, until fairly recently, the standard used to interface hard drives to Amigas. However, with the A600 and later, Commodore changed to IDE (Intelligent Drive Electronics) drives.

IDE drives are generally cheaper, because they are primarily designed to work with PCs. As PCs are generally not very good, an IDE hard drive has a lot to do. In fact, it blatantly lies to the computer about how big it is, where the data is stored and so on. Whilst, behind the scenes it looks after the data, and manages failures automatically.

If you perform a Low Level Format, you steam roller over all the tricks the IDE drive has been using and can destroy everything in seconds.

However, Commodore have added an IDE interface to the Amiga by fooling it into thinking it has a SCSI drive attached. SCSI drives need to be Low Level Formatted before use, as they are not as intelligent as IDE drives. Faster yes, but not as clever.

As a result, the *HDToolBox* program still offers the Low Level option. Never, never, ever use it on an IDE hard drive. Yes you need more memory when using Wordworth (or any other program) with 256 colour images. A hi-res 256 colour image can take up at least 320K of memory: quite a lot on an unexpanded A1200.

I think you are getting slightly confused about the expansion options. First of all, a simple memory expansion does not operate at a special speed. If you add memory to an A1200, it operates at the same speed as the rest of the computer, which is 14-and-a-bit MHz. Extra memory speed things up slightly as programs won't hog all the Chip/Graphics memory and so programs such as *Wordworth* will run at almost double speed.

Some memory boards offer the option of a math co-processor. These work at different speeds (typically 14, 25, 40 and 50MHz) although there isn't a great deal of difference between them all.

Maths co-processors are great if you use ray tracing programs a lot, otherwise they are not worth the trouble.

On the other hand, an accelerator works by adding a new CPU (Central Processing Unit) to the Amiga, usually replacing the existing 68020 with a much faster 68030. Again, the 68030 comes in different speeds but this time all programs will benefit from the greater speed. To make full use of the 68030, extra memory should be added at the same time. You can double the speed of *Wordworth* again by adding an accelerator.

GENERAL CONFUSION

Recently I have upgraded from my A500+ to an A1200, and I also bought a Yamaha PSR130 MIDI keyboard. I am definitely going to buy a MIDI interface, but I am very confused as to which one to get. Could you please recommend one, and also some good software under £50. Also, please tell me the difference between MIDI and General MIDI.

Anthony Terry, Preston, Lancashire.

All MIDI interfaces are more or less equal. They should offer opto-isolation to stop earth loops, one MIDI IN, a MIDI THRU and as many MIDI OUTs as possible. I use an interface produced by the Disc Company, which is in a heavy-duty case and has worked flawlessly for years. It came from Virgin, bundled with some software. Other interfaces are available with various samplers built-in, try HiSoft (tel: 0525 718 181) for the 8-bit or 16-bit options.

As far as software goes, *Music-X* is now available very cheaply, although I couldn't possibly tell you where you can get it. It takes some getting used to, but is extremely competent. *OctaMED* is another brilliant program which offers MIDI support, which can also play samples. And guess what? we've given it away on our coverdisk this month. By far the best music software is Bars and Pipes (a sequencer and a notator in one), which unfortunately is outside your budget. Any birthdays coming up soon?

MIDI is the hardware/software standard for connection instruments. General MIDI was developed by Roland, and builds on this to provide a degree of standardisation. To conform to General MIDI, an instrument must have pre-defined sound patches in agreed locations. For example, patch 1 must be piano and a drum patch must always start with a Bass. It's an attempt to ensure that any tune created with any General MIDI instrument will work on all General MIDI instruments manufactures. It stifles creativity, as all keyboards and modules now come stuffed with exactly the same standard pianos, strings and helicopter sounds. But what do I know?

PC PLEASE

I urgently need advice. I am a student studying computer science. I purchased an Amiga A4000/030 last summer plus an CBM 1942 monitor. Along with these two items I paid for a 486 emulator, which cost £299.99.

After numerous telephone calls I was finally told the bridgeboard is unavailable.

My course involves programming in Pascal, and being a loyal Amiga user I opted for the A4000 over a 486 PC. Could you please answer some questions: What 486 bridgeboards are available for the A4000? Can RAM be added to the bridgeboard? What type of performance will the bridgeboard provide?

Brendan O'Reilly, Renfrew.

It now seems to be impossible to buy a new bridgeboard for the Amiga. Unless some of the rumours concerning certain American companies are correct, there just won't be any way to get a new one ever again. You can keep a look out for secondhand ones, but I think you'll be lucky. If you do get one, then yes, you can add memory and the performance is almost identical to a normal 486 although you won't be able to take advantage of any local bus PC cards, because the Amiga doesn't have one.

The good news is that you don't actually need a PC. HiSoft Pascal is compatible with the standard Turbo Pascal and CrossDOS on your A4000 will allow you so swop high density disks with PCs.

So relax and repeat after me: "I don't need a PC, and I certainly don't need backward compatibility with 1970s memory architecture and a pain-in-the-butt GUI."

WHY DO YOU HATE PCS?

I have recently bought an A1200 and I want to buy a monitor. Will an S-VGA monitor display all the AGA modes? I have only bought one issue of your magazine and I think it's great, but you don't seem to like PCs. Why is this?

The Amiga has excellent sound capabilities and some games have excellent sound tracks, but this is lost with the tiny 10watt speakers I see advertised. I have my Amiga connected to a 40watt hi-fi and it sounds crisp and clear The bass thumps and it adds a hell of a lot to gameplay and atmosphere.

Brett Jackson, Crewe, Cheshire.

Theoretically, yes a Super VGA monitor should work with an Amiga A1200 and a small cable adaptor, but in practice there are problems. Some SVGA monitors won't work at all, some will only work in Workbench mode and some will work fine. Unfortunately, the only way to be sure is to test it for yourself. The VGA-only monitor tool should be placed in your monitors drawer to help things, but remember to delete the file ENVARC:Sys/overscan.prefs and reboot before editing your screen mode and overscan preference settings.

Remember that an SVGA monitor only works at about the 30kHz rate, which means no non-double scanned modes will be displayed. This covers just about every game ever written, so be careful. You might be better off getting a multiscan monitor such as those produced by Microvitec or a 'proper' CBM monitor such as the 1942.

Anti-PC bias? Okay, I admit it – today I'm not feeling particularly generous towards our clone owning brothers and sister but generally I try to be a little more understanding.

UNSETTLED

I have an A600HD, and I also own the brilliant *Settlers* game. It works fine from the floppy disk, but when I try to put it onto the hard disk using the install program a requester appears asking me to insert volume 'DH0:' in any drive. Why? Also, could you tell me if CDs are more reliable than floppy disks. Floppies are such a pain sometimes.

Anthony Allsopp, Tipton, West Midlands.

The requester which appears is making the assumption that your hard drive's physical name is 'DH0:'. Your drive isn't and the installation fails. Chances are your drive is called something like 'HD0' instead. You can check by entering ASSIGN [return] at the Shell. After a load of waffle look for 'Devices' and your hard drive's name will be there.

To solve your unsettling problem, you have two choices. The first option is to change the name of the drive to 'DH0:' using the HDToolbox program. This method is a little extreme, and could conceivably cause any other programs which use the path 'HD0:' to fail.

The second solution is to make use of the ASSIGN command again. Open a Shell and enter ASSIGN DH0: HD0: [return]. This will redirect any references to DH0: to the hard drive device HD0:, which should prevent the installation from failing. This command can be placed in the file s:user-startup to ensure it is executed each time you boot your Amiga.

CDs are more reliable than floppy disks. This is partly due to the fact that you can't write to them and so corrupt the contents, but mostly due to their construction: there are no moving parts, and nothing other than an infrared laser beam comes near the surface. If you try hard enough, you can still scratch them so you still need to take care of them.

VGA BLUES

I have a VGA monitor which I wish to use with my Amiga 1200, and to this end I have made a short adaptor lead. I have transferred the VGA-only file from Storage and the screen mode file from extras to Workbench but VGA-only does not appear in the screen mode preferences. I have tried a variety of options but with no success and would appreciate your help.

K.P. Parker, Ulverston, Cumbria.

The VGA-only isn't a monitor driver in its own right – it merely 'fine tunes' an existing driver in an attempt to get the monitor to work with the Amiga. You should select a screen mode such as DblNTSC, DblPAL, Euro72 or Multiscan. Looking at the specification sheet of your monitor, I suggest you try Multiscan mode with the VGA-only driver also present in the monitors drawer.

I've just come across a public domain program called *MonEd version 2.14*, which allows you to hack the values in the monitor drivers at a very low level. I have successfully used this program to alter the driver for my CBM 1960 monitor, and as a result I can finally centre my display. However, this program is not for the faint hearted, and could potentially destroy a monitor. Use it with great caution. Previous versions of *MonEd* didn't work with all Workbench 3.0 drivers.

I RECENTLY...

II recently bought a printer and I am not sure what driver I should be using. At the moment I am using the EpsonQ driver and it seems to work okay. It has problems with printing out graphics.

The make of the printer is a Shinwa A-V 8052, but on the front of it there is another number, WM100. If you cannot help me could you please tell me who to write to for help.

Is it possible to link the A1200 to the CD32 because judging by what some magazines are saying Commodore have dropped the idea of making a compatible CD-ROM drive.

I started a course in Computer Applications working with PCs and I must say they are a load of rubbish compared to the A1200 operating system and there is a lot of other areas where the A1200 is better.

Antony Hinks, Southsea, Portsmouth.

I'm not acquainted with the printer you mention, but I know some people who are: the company that made it. Look in the instruction manual for a telephone number for Shinwa's customer services and give them a call.

There is a device which will allow a CD32 to interface to an A1200 by means of the serial port. It works by means of a small adaptor which fits to the CD32's keyboard socket, and allows normal networking software such as SerNet to operate. The only drawback is that until someone brings out a floppy disk interface you will also need a CD-ROM with Workbench and suitable networking software, such as the CDPD3 disc from Almathera Limited (Tel: 081-681 0040).

Yes, I prefer the Amiga to PCs as well, although apparently I'm not allowed to say that or people write and complain.

GAME TROUBLE

You may remember me, I'm the disabled guy that can only type with his nose – you gave me some information before.

I have now changed my Amiga 500+ for the Amiga 3000. I made this change because I do a lot of DTP and the 3000 is more practical for the task.

However, in my spare time I enjoy playing just two games: *Kick Off 2* and *Jimmy White's Whirlwind Snooker*. However, neither of these games will load past the title screen and I'm getting really bored. Please tell me if there is any possible way to get these games to work on my new computer?

Darren Mannix, Bulwell, Nottingham

These games seem to trip up over the presence of the internal caches of the 68030 used in the A3000, and switching them off before loading the games should solve the problem. You can achieve this either with the public domain SETCPU program, or even the well-know SysInfo.

Incidentally, I strongly suggest you buy yourself a modem and start to explore some of the many electronic networks which exist. For example, FidoNet is a free system available for a local call from just about anywhere. There is an excellent Off-Line mailer available (Spot), which means you can take as long as you like thinking before typing your replies – and best of all, it only takes a few seconds each day to download all the mail. See the Comms section in this very magazine for more details.

PAINTING PROBLEMS

I own an A500 with 1Mb of RAM. At the present moment I have *Deluxe Paint II*, and I spend hours on it. I would like to upgrade to a higher version but I'm not sure which versions work on an A500 or which is the best to get.

Alex Jenner, Hurst Green, East Sussex.

All versions of *Deluxe Paint* work on all Amigas. That said, you need an AGA-equipped Amiga (an A1200 or A4000) to take advantage of the 256 and HAM8 colour modes.

I suggest you get the best version you can afford, as version III was a good jump over II, and likewise IV tidied up a few bugs and generally behaves a bit better. If you plan on upgrading to a A1200 at some point, the AGA compatible version IV would be a good investment. Remember that Electronic Arts offer upgrades at discounted prices, so there is no need to rush out for AGA-IV just yet.

***Personal Paint 4* might also be worth considering if you don't mind the lack of Animation and HAM screen modes.**

DEMO MANIA

I'm a regular CU AMIGA reader and own an A1200. I have a few good demos, mainly of the rave and techno variety. Please help me! Can I use the Meglosound sampler and a Rocgen, Genlock with some video footage and put

»

» them all on disk to make a demo? Would I need to buy a hard disk of 20Mb or more to install it all? I'm really lost – do I need a MIDI to out my keyboard through my sampler? I need help!
Steven Sharkey, Pentrith, Cumbria.

You can just tell this is going to be a long reply, can't you? First of all, the demos you have seen are the result of many hours of extremely clever programming. The soundtracks are created with a tracker program such as *MED*, but the graphics are all written specially. It would take you a very long time to learn to program the Amiga well enough to get graphics like you've seen.

The Meglosound can capture sounds to hard disk, certainly. However, this isn't really what you are after. You need to sample small snippets of sound, a drum loop here, a lead synth line there, and put them together using *MED*. There are already millions of samples in the public domain, so you won't even need a sampler to get started.

Creating good graphics is something else altogether. The Rockey and Genlock are both for 'live' video work (that is, your finished video could only be recorded onto video tape, not displayed on the computer screen).

To capture video, you need a video digitiser. This will convert real images into IFF pictures which you can then load into Deluxe Paint and play around with. You can then create animations with them, and use one of the many public domain playback programs to put the Anim files all altogether.

Before you rush out and buy lots of high end video gear, I suggest you buy yourself a VideoMaster from HiSoft (tel:0525 718 1818) reviewed in the March '94 issue of CU AMIGA by some geek who couldn't keep his mouth shut whilst juggling. This wonderful device will capture video sequences and sounds, and then allow you to sequence them all. The finished epic can then be stored on a floppy disk and sent to all your friends.

Incidentally, a 20Mb hard drive is ludicrously small. It would be a complete waste of money, as you could fill it in an afternoon. If buying a drive, aim for 130Mb or preferably 200Mb – even 80Mb is far too small.

CD32 QUERIES

I have recently purchased a CD32 and FMV cartridge and I have also ordered an expansion board made by Index Systems. I have a few questions:

1. Can I plug my CD32 into a genlock, or do I need an adaptor or can only RGB be used?
2. Will the Opalvision board for the A1200 be compatible with the CD32? Where will it plug into the expansion board?
3. Also, about the expansion board you mentioned in the CU AMIGA Buyers Guide, which included disk drive, keyboard, MIDI interface, parallel and serial ports with room for 8Mb of RAM and a maths co-processor. Is this still going ahead?
4. Is a separate controller available for the CD32 so I can play two player games?

Simon Wells, Islandmagee, County Antrim.

1. As the CD32 has a S-VHS output, you can use any genlock which supports this standard. Unfortunately, you could only use the CD32 as an external source (like a camcorder) because in order to genlock properly, the Amiga needs to use some of the extra lines on the 23-way RGB connector. So no, not really, you can't.
2. Judging from the length of time it seems the makers of Opalvision to produce the add-on modules, I suspect that when the CD32-compatible system appears we'll all be old and grey and using A7000s. Next question.
3. Don't know. A few peripheral manufactures have been changing hands recently, but if there are enough CD32s sold, you can bet that this adaptor will become available.

MULTIPLE MIDI

I have several keyboards, synthesizers and a drum machine and I sequence them all with my Amiga. However, I've found that I'm running out of MIDI channels, especially when I try to use all the multi-timbral voices at the same time. Could I multitask several copies of the music program, and use a multiface card that provides several serial interfaces?
Michael Barr, Bangor, Co. Down.

Theoretically yes, although you might find that timing starts to become a real problem. You could slave one sequencer off the other but you'll be pushing the Amiga right to the limit.

A much better solution is to use the Triple Play Plus from Blue Ribbon (Meridian Distribution tel:081 543 3500). If you are running *Bars and Pipes Pro* – and if you have a lot of MIDI kit you certainly should be – this cunning device provides three separately addressed MIDI outs, which means up to 48 different MIDI channels. There are only three OUTs on the Triple Play black box, but you can then use the THRU connectors on your MIDI gear to pass on the signals.

DIY BBS

After reading your section on Comms, I and a few friends have become quite interested in setting up a BBS (Bulletin Board System) and we have a few questions:

1. Where can we get a copy of some BBS software?
2. Can a BBS be run from an A600, A500 and an A1200 using Parnet?
3. How and what should be charge for the use of the board?
4. Do we have to set ourselves up as a company?
5. What would be a good modem to use?
6. Can you please put us in touch with someone who can help if you can't?

David Tyler, Darren Horton and Darren Gebbie, Alfreton,Derbyshire.

1. All the BBS software is available by modem, so your first steps would be to get yourself a good terminal program (for example NCOMM or, preferably, Term) from a PD library and dial up an existing board.
2. You only need one computer to run a BBS, but the A1200 would be best. You will need a hard disk to offer any files for downloading or even small amounts of mail, and remember a second telephone line would be a good idea too.
3. You shouldn't really charge anything. Some boards have multiple lines and gigabytes of software on-line, and they may feel they have to encourage donations. The thrill of supplying a top-notch Comms service to the local community should be payment enough.

4. You only need to become a business if you do plan on going commercial and charging fees, otherwise the board is simply a hobby.

5. The USR Sportster 14.4 FAX modem has the best price/performance ratio going at the moment, but you certainly don't want to start a BBS with a slower modem.
After you have been running for a while, you become eligible to buy a modem at a special 'sysop-deal' price, so you can sell the Sportster and upgrade to something like a 28K Courier HST.

6. Sure thing – try calling the following boards: Aspect: 061-792-0260 Manchester,
Kingdom Of Greyhawk: 0332-756414 Derby,
The Crypt: 0602-445307 Derby,
061 For Amiga: 061-799-4922 Manchester,
Yukon Ho: 0232-768163 Belfast,
The Heart of Gold: 0247-274919 Bangor.

WHAT'S THE POINT?

I enjoy using fractal generators and 3D rendering programs but as the time taken to render images is unbearably long I am thinking about getting an FPU/Memory board.

1. Do FPUs require software support for them to be use? Is there widespread support for them?
2. Do the 68881 and 68882 have a 32 bit architecture?
3. Would a 16Mhz 68881 give a noticeable speed increase or would it slow the processor down?
4. What is the fastest FPU that a 14MHz 68020 can take advantage of?
5. Does an FPU become one of the custom chips or part of the main processor?

Andrew Jones, Duston, Northampton.

1. Any software which uses the correct Amiga maths libraries will speed up when an FPU is present, but software written especially for the FPU will really motor. Software support is good, as the authors of all major graphics rendering programs recognise that an FPU is a Good Thing and produce special FPU versions.

2. Yes

3. Even a 16Mhz 68881 will make a noticeable difference to rendering times. If you add some extra memory as well, the speed of your A1200 will more than double.

4. An FPU can be clocked entirely independently of the speed of the central processor, so theoretically you could add a 50Mhz 68882 if you really wanted too. However, the FPUs work best when they are operating at the same speed as a the CPU so the advantage of a 50Mhz FPU over a 25Mhz FPU when used with the 14Mhz 68020 fitted as standard to the A1200 isn't very great.

5. The FPU becomes an extension of the CPU, and works by intercepting any floating point instructions the CPU is asked to perform and executing them itself. If you try and run FPU-only programs on a computer with no FPU the system will crash with a Guru message.

NEXT MONTH

John and Andy are back next month with their own unique style of wit and informed advice. Till then...

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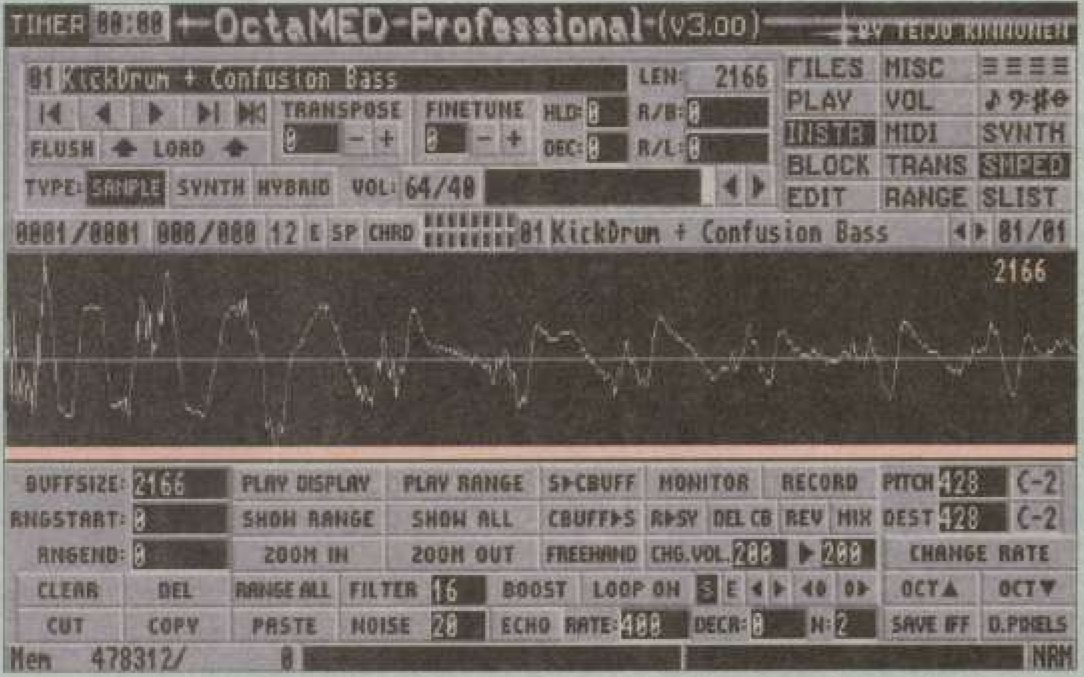
SOUNDLAB

PART 4

Darren 'Dancefloor' Irvine takes over this month as Tony 'Techno' Horgan takes a well-earned break to go off and spin his wheels of steel. Or something like that.



Mixing two samples is an excellent way of creating your own original new sounds. This one is a kick drum combined with a bass sample. You could use it either for a bassline, or as tuned percussion.

In Tony's absence this month, I'm going to have a look at a few special effects that you can apply to your *OctaMED* rhythm tracks to add a bit of dancefloor devastation to otherwise dull beats.

FAT BEATS

There are a number of things you can do to add a bit of life to your percussion. One of the best ways to beef up a drum sample is to mix it with another sample. You've probably already experimented with this, mixing kick, snare and hi-hat samples, in order to fit your entire rhythm into one track. However, to get a really kickin' sound, try mixing your percussion samples with samples of tuned instruments. For instance, mixing a really deep analogue-type bass sound with a kick drum produces a really heavy, squelchy dance floor sound. Similarly, try mixing snare and guitar sounds, for a unusual and funky effect. Try adding Laser-type pulse sounds to 808 style snares for a an authentic Sheffield clunk and bleep sound.

The best way to mix instrument and percussion sounds is as follows. First, load the instrument sound into one of the sample locations, and then select the sample editing screen.

Set the selected Range to be the entire sample, and copy it to the work buffer. Second, go back to the instrument loading screen, and load in the percussion sound you want to mix. Lastly, return to the sample editing screen, and click on Mix. With a bit of trial and error, you'll come up with some really powerful sounds. A hint here is to try an instrument sample which is quieter than the percussion one.

ECHOMANIA

Another way to add a bit of life to a rhythm track made up of individual samples, is to echo the entire track. Select an echo distance of three, and apply it to your rhythm track. This is a quick way of funking up your percussion, and you'll find you can create a great track with only kick, snare, and open hi-hat when you use echo in this way.

BRING OUT YOUR DEAD

You've probably also got quite a collection of hackneyed breakbeats, which are instantly recognisable, and therefore pretty much unusable. One way round this is to sample some more, but in theory at least, you always have to be careful of the copyright laws when sampling other peoples material.

Echos are great for filling out your drum tracks. The track on the left is the original, the track on the right is the echoed version.

You could always by a sample-compilation CD, but most of these are a tad expensive for the casual user. On the other hand, it's quite possible to breathe new life into a dead breakbeat.

One method, is to apply some sort of sound effect to the sample, preferably in stereo. Most sampling software nowadays has a range of effects built in with which you can process your sample, but the majority of these produce fairly unsubtle results when applied to percussion samples.

So what's the alternative? A great technique, if you can spare the memory and two of *OctaMED*'s tracks (a stereo pair is what we're looking for here) is to use *OctaMED* itself to produce a real-time phasing effect.

To do this, load the same breakbeat sample into two different sample locations. For best results, pick a break beat that stretches over two bars (32 lines of an *OctaMED* block). Play the first instance of the sample (at a reasonable rate!) on line 0 and line 32 of a 64 line block, on say, track 1. Do the same thing on track 2, but this time with the second version of the sample. Now for the clever bit.

From the instrument control menu, fine tune the second version of the sample up or down 1 or 2 points. Now when you play the block, you'll get a phasing effect, with the rhythms moving in and out of the stereo field – great for trance techno type extravaganzas. If you're feeling particularly adventurous, try playing one of the samples an octave down from the other.

If you can't spare the memory or two tracks for the rhythm, you can get a similar effect in mono as follows. In the sample editing screen,Range select the whole sample, and copy it to the buffer. Then, pitch shift the sample a couple of points, and click on Mix. The effect is a lot less subtle than the stereo version, but can be just as effective in the right circumstances.

ON A RAGGA TIP

Another way to squeeze the last bit of life out of a dying rhythm sample, is to change the playing length and sample trigger positions from the normal start of the bar. This is a technique much favoured by breakbeat and jungle techno groups like SL2 and The Prodigy, and works best at fairly fast BPMs. Play your breakbeat on lines 0 and 32, and adjust the tempo so that the rhythms trigger in time, with no glitches. Now trigger the sample on the following lines: 0,6,16,26,32,42,48, and 54. When you play this back, you'll have a rhythm track that sort of rolls around the beat - perfect for just adding a bassline and calling it your finished song!

For a brutal stereo version of this, try playing the same sample on a different track (on the opposite stereo channel) at the following lines: 0,10,16,22,32,38,48, and 58. You might even like to go the whole hog and combine this with the stereo phasing effect.

That's just about all from me, and normal service will resume next issue, with the return of Tony Horgan.

Remember, you don't have to stick to what I, or anyone else suggests, if you want to play ambient techno at 230 BPM in 15/16 tempo, go right ahead. *OctaMED* is a wonderfully-expressive program, and allows whatever musical talent you might have lurking inside you to get out and terrorise the rest of the world! CU

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BACKCHAT

Sometimes you just need a shoulder to cry on... and Tony Dillon doesn't mind getting his jacket soggy. Send your Amiga related problems and gossip; to Backchat, CU AMIGA, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU.

FOND MEMORIES

I have owned a home computer since 1984 and have seen many changes in the industry. I remember the days when Epyx were outstanding and floppy drives were the size of double decker buses. I remember rude comments about Spectrum owners. I remember Commodore User, Eugene Lacey, five star ratings and a £1 price tag. I remember blocky, 16-colour graphics and games that took seven minutes to load on cassette. I remember classics like *Thrust*, *GAC*, *Park Patrol* and *Raid Over Moscow*. I remember Kempston Joysticks (one of which is still working now after eight years).

I often look back and remind myself about the past... and think: "THANK GOODNESS FOR A1200, CD32, FMV AND CU AMIGA – BIGGER AND BETTER THAN EVER!"

P.S. Your cover disks are excellent, and the free programs that have opened up doors I never knew were there.

P.P.S Thanks for the honest and informative reviews that have saved me a fortune over the years and given me many hours of pleasure.

P.P.P.S Any chance of a CU AMIGA review index in the future as I have so many issues that when I want to look up a review I am often looking for several minutes. (I never buy anything without first reading a CU AMIGA review first).

Anthony Neil Briers, Liverpool.

At this point we had to tie Tony up and lock him in a drawer. Tony is very fond of the good old days, when software was cheap, *Mastertronic* ruled and two-channel sound on the Spectrum was a major programming achievement. True, you the customer have a lot more on offer to you now, and many of you don't realise how lucky you are. 256 colours? Stereo sound? CDs? Pah! Thanks though Tony, your last wish may be granted soon.

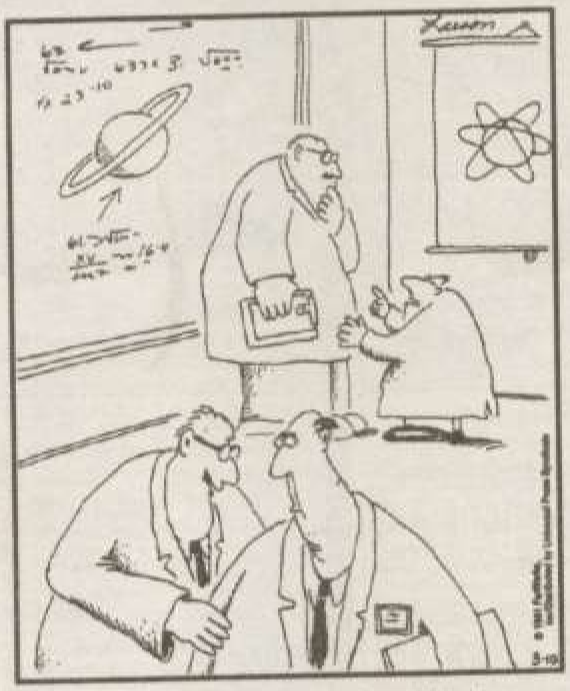
A BALANCED ARGUMENT

There seems to be a very anti Sega Mega CD attitude in your magazine and other Amiga publications, especially when comparing it to the CD32. The CD32 has a 68020 rated at 14mhz and the Amiga custom graphics chips which create sprites, hardware scrolling with parallax scrolling. All chips share the same memory, creating a slowdown which results in the system running at just over 1mip performance.

The CD32 also has a chip for speeding up 3D graphics plus a Z80A at 4mhz. It also has the custom graphics hardware in the Mega Drive section plus new graphics hardware in the Mega CD which creates Mode 7 type graphics like the Super Nintendo, but much faster (as seen in *Thunderhawk*). These custom chips have their own allocated memory and so do not wait until other chips have finished. I'm not saying that the Mega CD is better than the CD32. In fact, neither impress me. But I do believe there are just as many reasons for buying a Mega CD as a CD32.

I'm not convinced about the CD revolution myself I'd rather have more processing power than a slow mass storage system. CD games end up being the same as disk ones but with a ton of padding, intro animations, music and various still screens between levels etc. No thanks!

Martin R Wilson, Somerset.



"There goes Williams again ... trying to win support for his Little Bang theory."

The problem isn't in the stats. True, the Mega CD can pull some fancy tricks that the CD32 can't. The real truth is in the playing, however, and most Mega CD games just don't come up to scratch. Few colours, poor video quality and very few actual playable games, and by that I mean games that aren't just animated sequences. Just compare the Mega CD version of *Microcosm* to the CD32, and you'll see that there's no real comparison.

A LESS BALANCED ARGUMENT

As a totally biased CD32 owner I cannot see why the public buy the over-priced opposition. Take the CD-i for example, sure it has built-in FMV, but you pay for it don't you, along with the totally brick-shaped exterior, and a machine which only has films and rubbish adventures available. The 3DO is worse. £600 for a machine without software, yet people buy it.

Personally, I think that if Commodore had spent a little more time and money on the exterior of the CD32, it would have sold millions, not just tens of thousands. It looks too much like a Mega Drive, which is certainly going to put off your more mature buyer. What they want is something which looks more like a CD-i, which granted, looks bad, but doesn't look out of place beneath your video, like the CDTV. The rubbish shape and colour of the CD32 mean that people take one look and think; "Low price – pity it's a games machine."

Of course the CD32 is a games machine, but not totally, as the advent of the FMV module demonstrates. The commodore dream machine truly is a Multimedia device, capable of handling anything the CD-i, 3DO or Jaguar can throw at it.

As I said earlier, the CD32 is a games machine capable of chucking God knows how

TEAM TALK

The team has undergone some drastic changes in the last couple of months. To help the new selection of bods gel together, Lord Emap has reached deep into his pockets and sent us all off on an adventure weekend, where we can collect our thoughts and become one living, breathing entity.

ALAN DYKES

"All right you 'orrible lot", Alan shrieked as the coach pulled into Plumley Manor. "You are the worst bunch of whacked out journos I have ever come across... you boy, don't eyeball me boy! Where are you from boy? Islington? Only two types ever come out of Islington; arties and Arsenal supporters. Which are you boy? Don't eyeball me boy!". Oh dear.

LISA COLLINS

Or Rambo Collins as she now wants to be known. A weekend in the wild has brought out an even tougher side to Lisa, to the point that when she tripped on a gravel path and grazed her knee she insisted on getting a needle and thread from the hilt of her bowie knife and sewing the cut, rather than using the Noddy plasters offered to her by Dr. Tony Horgan.

LETTER OF THE MONTH

WISHFUL THINKING?

After reading in a CD32 dealer brochure about the new CD32 pack and the games bundled with it, I felt I had to write in and express my views. In the past, Commodore have always had fairly-average-bordering-on-pathetic games bundled with their computers. These games were never anything special, they did not stretch the machine to its limits and were only really there to pad out the box. I should know, I bought the *Cartoon Classics* pack which was anything but good. The only game in the pack worth any mention was Lemmings, but then that is out on almost every other computer format. But maybe this pack was understandable – after all, the A500 was a home computer, a very good one, which was more than a "a games machine that can word process" as some PC owners call it.

The CD32 is a dedicated games machine, and one that can far outdo anything else on the market, both in terms of power and hardware. The software that is bundled with it should be playable and take advantage of the amount of space on a CD, not one or the other. Let's look at the games that come with it in this new *Dangerous Streets* pack. First off, *Diggers* was obviously a rush job to meet the machine's release date, on floppy it would be an average game. Next up there is Oscar, this is another average, not very playable game, it really takes advantage of the machine's ability to have 256 colours on screen. We now come to *Wing Commander*, I hope they have done something special to the CD version because it was pretty duff on disk, (even on the A1200). We now have a new game not yet seen before called *Dangerous Streets*, a beat 'em up by all accounts, along the lines of *Mortal Kombat* or *Streetfighter II*. This looks like it will be the real gem in the pack, but I doubt it.

What Commodore need to do is to give some games developers a real kick up the back side and get them producing games for the CD32. I cannot understand why developers are taking "let the market grow a bit then develop some games" attitude.

The CD32 market is full of owners crying out for some good games.

All they are getting at the moment is Shovelware. Commodore promised over 80 titles in time for Christmas, this then slipped to around 50. I counted under 30 in a Virgin Megastore in London before Christmas, out of these only five were any good and that was only because they were of floppy origin.

Commodore say that the CD32 is competing against the Mega CD and perhaps the CD-i. This is wrong. The CD32 is competing against any machine that games can be played on, and this includes Nintendo and Sega machines. People are going to walk into Currys, play Mario on the SNES, Sonic on the Mega Drive, Oscar on the CD32 and walk off with a Mega Drive or SNES. The CD32 needs a game that people actually know about, like Sonic or Mario. Probably the only game with a good enough chance of doing this is Zool (I still think that Superfrog was better), but this is available on other formats. The CD32 needs a game bundled with it that is, a) only available on the CD32 and b) very playable. Commodore need an in-house games development group or a software developer to produce good games. (This hat falls rather nicely on Team 17). I suppose the chances of this happening though are small, they've obviously got other things to think about.

I believe that the *Dangerous Streets* pack is a mistake, Commodore should have waited for some more games to come out first. I think that the ideal pack, (made up of games out, or due out over the next few months), would look something like this:

Beat em Up: *Mortal Kombat* or *Rise Of The Robots*
Platformer: *Zool* or *Soccer Kid*
Simulator: *TFX*
Shoot em up: *Microcosm*

I feel that this pack would sell very well; as long as it wasn't too expensive (ie, below £300).

I do not own a CD32 but I do intend to get one. This is because I know it is a very good games machine. I hope and think the CD32 will have a bright future.

Paul Palmer, Buckhurst Hill.

Bundled games are free, so you can't really expect the greatest pieces of software on earth. A game like TFX will make a killing when it is finally released, so there is no reason at all to sell it at a very reduced cost in a bundle. I do agree with you though, bundled software should be of a far higher quality than *Dangerous Streets* – and guess what? *Microcosm* is due out in the latest bundle!

many polygons around the screen, displaying even more colours, with no slow down, and the storage space for huge games like *Rebel Assault*, *Liberation* and *Microcosm*. But what's happening to all the games promised? "We'll have 80 games out by Christmas", say the publishers. Bull! Divide that by 10 and the true figure is displayed, most of the games released are tarted up floppy releases with the odd extra colour screen, or another sample of speech when you get hit, or an intro, which is nice but hardly pushes forward the boundaries of games playing to any extent. Some companies release their games as total ports from the floppy counterpart.

Take *Mean Arenas* for example, the floppy disk even appears on screen when the disk is accessed. Some other publishers, such as Renegade and Team 17, seem to have forgotten about their plans for software altogether, resulting in another fifteen or so games which were promised, not appearing.

If Commodore don't hurry up and get prices, hardware and software sorted out, my CD32 is going in the classified section of the local paper, so I can buy something else more worthwhile.

Name and Address supplied.

As any developer will tell you, 650Mb is a lot of space to fill, and if you want more than just a fancy introduction or some CD audio tracks, then it's going to take quite a while to fill that space. For the near future, most of what we'll see on the CD32 will be ports from floppy versions, until the market grows to the point where developers can afford to spend a year creating the size of game the CD can hold.

A PROBLEM SOLVED

A year ago I wrote to you complaining about the lack of math programs on the Amiga.

However, in November I found a program called *Maple V*, written by Maple Software in Canada. I read in a USA magazine how it can do mathematical calculations. So I bought it, went home, tried to run it on my A1200. Of course it did not work, because you can't expect such a program to work without a FPU.

After one or two months, I bought a MBX1200z FPU board. Great!! Maple was working. Maple V is as powerful as the PC Heavyweights Reduces and Mathematica. It uses 7Mb of hard disk space. It's fast even with a 14 Mhz 68881 FPU. It solves equations, integrals and many more at the touch of a button.

I think with the advent of A1200 and A4000, Amiga users began to use their machines in more serious and useful ways.

Three years ago I was playing games only on my old A500. But now I am solving problems with Maple V, writing letters with Final Copy, video titling with ScalaMM etc on my powerful A1200 while most of my PC-owning friends are only playing games on their expensive and ultra-fast (!) machines.

I am a Commodore fan. I've been using CBM machines since 1984. The news about the new Amiga Windows NT is very exciting. If Big C release it, I am sure that my next computer will be an Amiga Windows NT.

Sinan Gurkan, Istanbul.

"It sounds stimulating", said tech bod Andy Leaning-Over-Into-A-High-Wind, yet he had to admit that he had never seen it. Any more interesting or unusual software out there?

ANDY LEANING

Andy Leaning-Alarmingly-To-The-Left revealed the James Bond side of his character by managing to find a secret Russian spy base some 15 miles below a remote piece of woodland. Using all sorts of extra gadgets plugged into a GVP A1230 Pro II, he spotted a satellite dish some two millimetres across hidden in the branch of a tree.

TONY HORGAN

"Always be prepared", is Tony's motto, but he could never have been prepared for what the wilderness had in store for him. No decks, no record shops and no raves. Undaunted, Tone set to work on couple of trees with a Swiss Army knife, and before you could say 'Let The Beat Control Your Body', he had whipped up a primitive, but workable sound system.

JOHN KENNEDY

John vanished the moment we reached the Manor, shouting something like: "Where can a man get a drink around here?". Two days later the small fluffy woodland animals came racing out of the forest, fleeing from the worst smell ever and some green smoke. In the middle of it we found John creating home brew stout, with dandelion petals and tree bark.

JASON HOLBORN

Jason had to hide in the hotel after the first day, as members of the local village community rushed out to collect their corn harvest. Jason's a big lad, you see, and the problem was that many of the villagers assum- ed he was the jolly green giant, come to tell them that the corn was just right. Jason denies this but he sang 'Ho ho ho' all the way home!

CU AMIGA

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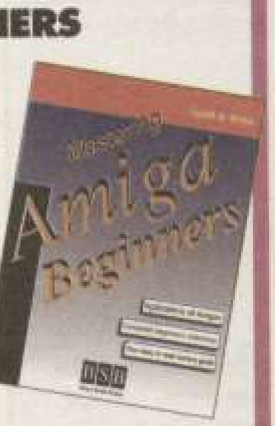

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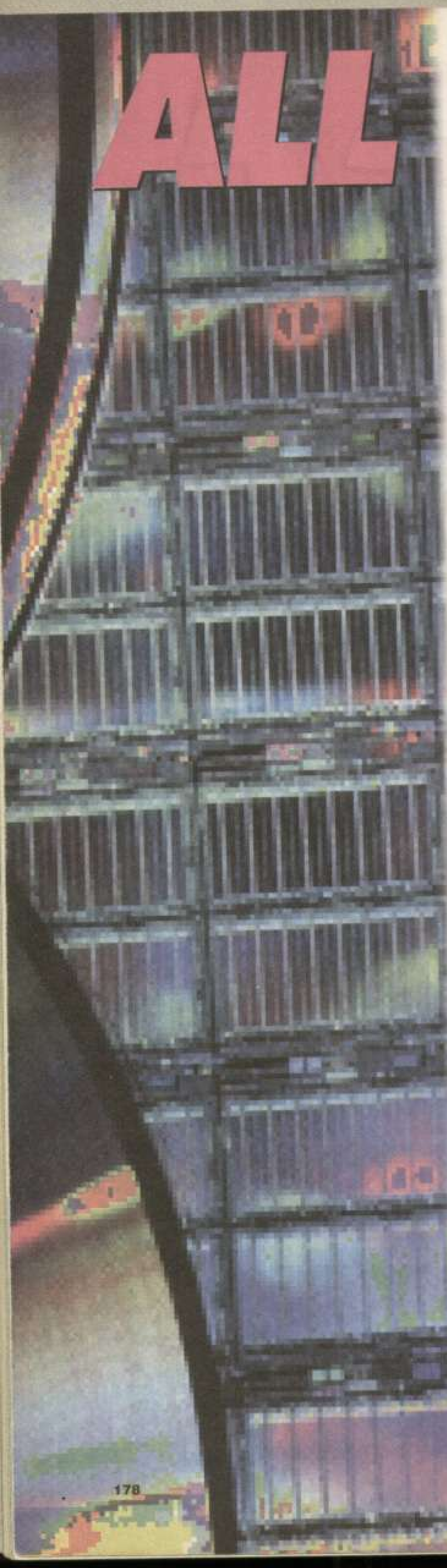

ALL CHANGE

Meet our new technical editor and tell him what you'd like to see different about CU AMIGA.

My name's Andy Leaning, and I'm the new Technical Editor of this fine magazine. Before joining CU AMIGA I worked for Silica Systems, a company that will be familiar to many of you. In fact, I'll bet that I've probably met or spoken to most of you (believe me) during my multifarious career at Silica. Based in Kent, they are one of the UK's largest Amiga dealers and whilst working for them I came to love this computer.

Let's face it, what other single system lets you play games better than any console, create perfect typeset documents, write a novel, and mix your own records? And to top it all you can get one of these brill machines for next to nothing – the Amiga is simply superb.

I started working for Silica around the time the Amiga was released, way back when the A1000 was first announced, and since then I've seen it grow from a niche computer to become the biggest selling range of home computers in the UK. And now, with the Amiga CD32 it looks set to get even better, becoming not just the best home computer, but also the most popular CD games console around!

ALL CHANGE

Whilst at Silica I did a variety of different things, including beta testing *PageStream*, supervising their technical support teams and writing various adverts, brochures and manuals.

However, after seven very enjoyable years there, I decided it was time for a change. But where was I to go? I love using the Amiga, and the thought of going somewhere that used huge, complex, PCs or simplistic Macs just wasn't appealing. One of the Amiga magazines was an obvious choice.

But there are loads of Amiga magazines – apparently something to do with the vast numbers of Amigas now being sold! – at the last count there were eight different titles on the newsstands, so which one would I choose? Well actually, that was the easiest part.

RESPECT!

My role at Silica, for the last three years, was head of PR, or press relations. In this position I got to know all the UK magazines pretty well, dealing with them on a regular basis.

During this time, I came to respect one more than the rest: CU AMIGA. Like you and I, the crew who write it love the Amiga and are totally committed to it. They're Amiga users who write for Amiga users. The technical reviews are researched and written by people who know what they're doing and have used the Amiga for more years than they care to think about.

The games reviews are not only up to date, but also truthful, and written by the best games players in the UK. For the low down on Amiga there can't be a better source of information.

But unlike some other magazines, CU Amiga's writers are not blinded by their love for the machine. They won't let their judgment be hindered – if something's crap they say so, and they can't be bought. This is one of the reasons CU AMIGA doesn't just hand out awards. You won't see Screen Star or CU AMIGA Top Rated awards often, so when you do you can be sure the software or peripheral that's won them is the very best.

But the real reason I've chosen CU AMIGA is the atmosphere here. Working for CU AMIGA is above all good fun. Unless it's time to get the reviews written, and copy in (when Lisa comes chasing), we get to play around – but with a purpose. We test the latest software, experiment with new peripherals and batter existing upgrades, this of course means we get to use our Amigas for hours on end. Unfortunate eh? But the more time we spend on our Amigas the more we can write for you.

SO WHAT'S NEW?

So what changes will I be making as techie supremo? Well, regular CU AMIGA readers will be pleased to know there's nothing dramatic in the pipeline at the moment. The style and content of CU AMIGA's reviews will remain largely the same. After all, it works – CU AMIGA is now the fastest growing Amiga magazine in the country. Its combination of impartial, authoritative advice and information, coupled with (we hope) a sense of humour allows us to give you all the information you need about the Amiga without being too technical or confusing.

What you will notice however are subtle improvements, making the technical features even more helpful, more detailed and yet easier to read. From this issue onwards you'll notice that the major reviews now have comparison boxes. In these you'll find a list of the major competitors to the product concerned, making it easier for you to make an informed buying decision.

TALK TO ME PEOPLE

Other small, but useful, changes will be introduced over the coming months. If you have any ideas about what you would like to see featured in CU AMIGA, please drop me a line. I'd love to hear from you. I don't want to sound as though I'm copying anyone else's marketing slogans but we *are* a listening magazine and, well, I'm its brand shiny new ears.

This month, we've exclusively reported on a CD-ROM system for the A1200. At the moment it's not destined to be FMV compatible, but it has to be a step in the right direction. This, the continuing high sales of the A1200 and the CD32 and the wealth of software that's being produced for both machines means that I feel very confident about the future. Whatever happens, keep reading CU Amiga, we'll make sure that you know exactly what's happening. CU

If there are any new features or ideas you would like to see incorporated into CU AMIGA why not write to: Top Tips For Andy Leaning, CU AMIGA, Emap Images, Priory Court, Farringdon Lane, London EC1R 3AU.

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Stephen Bathgate
Managing Director

What the press said...

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GOLD
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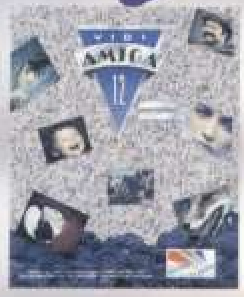

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98%
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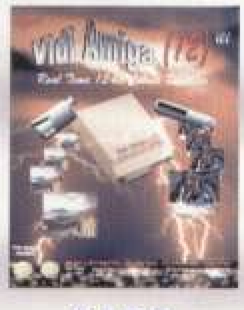

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AWARDED
98%
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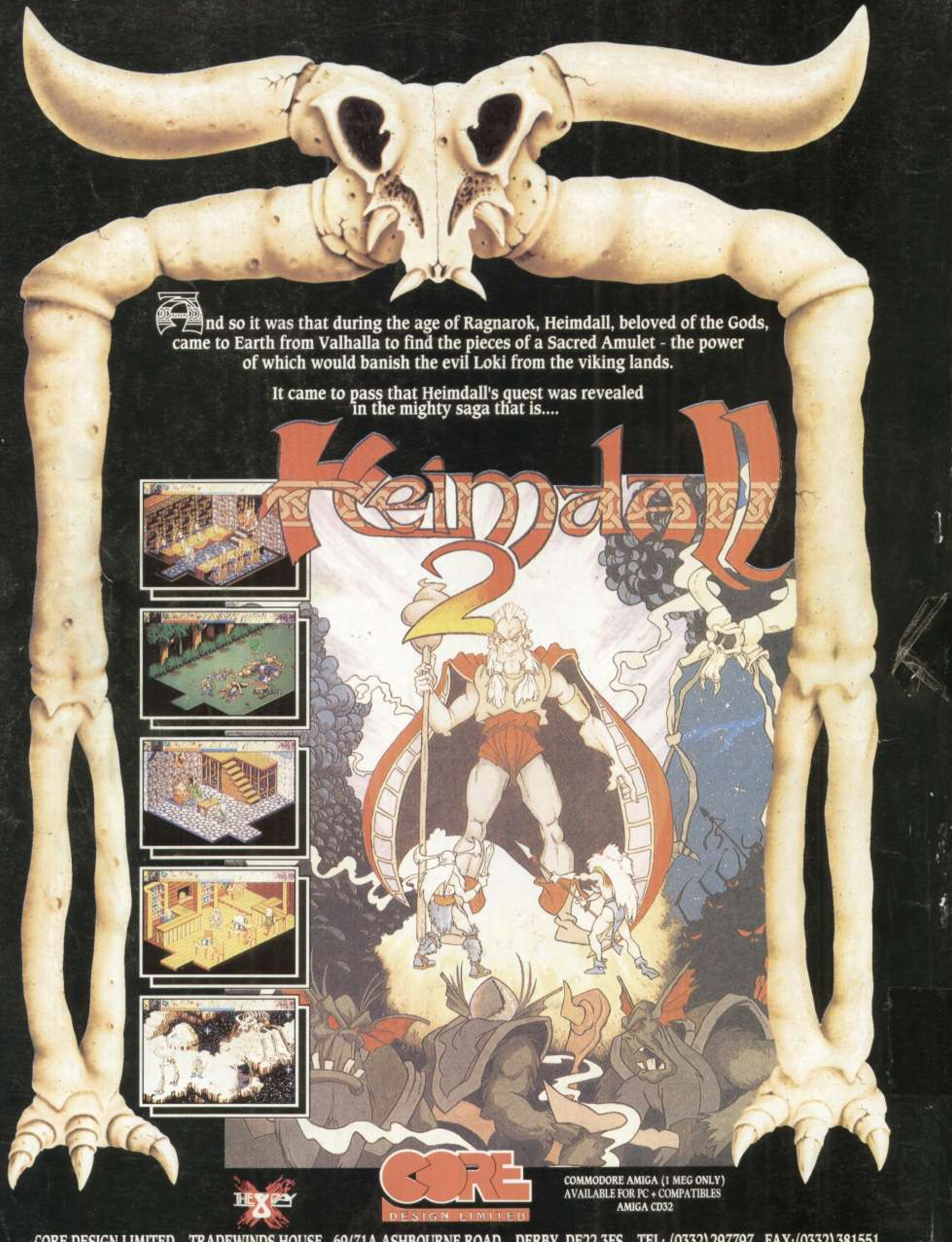

And so it was that during the age of Ragnarok, Heimdall, beloved of the Gods, came to Earth from Valhalla to find the pieces of a Sacred Amulet - the power of which would banish the evil Loki from the viking lands.

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